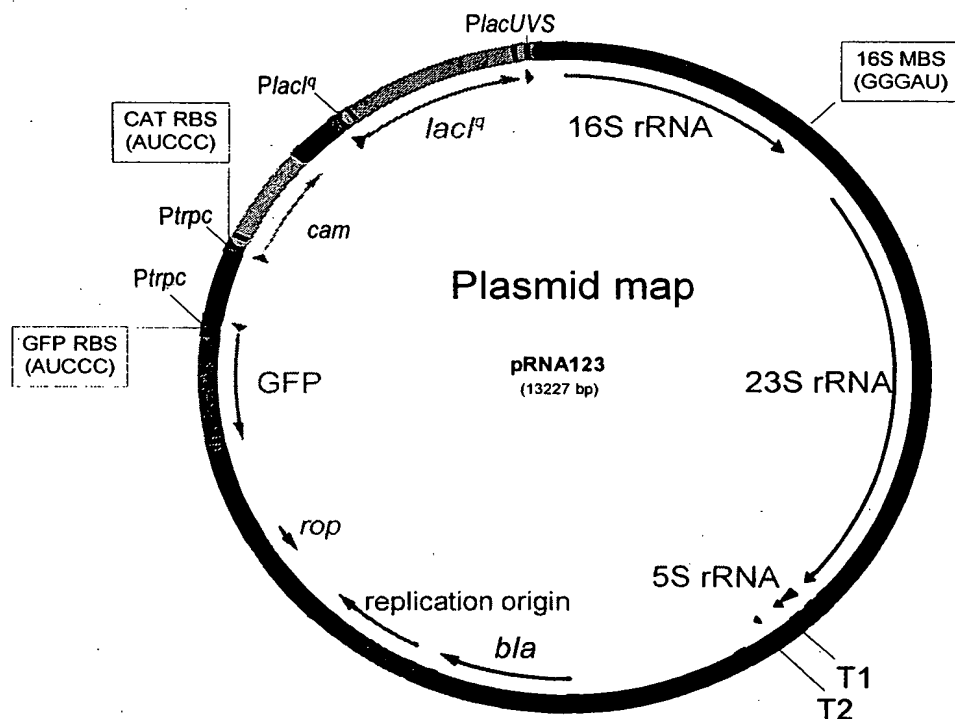


Nucleotide	Description
1-1542	16S rRNA of <i>Escherichia coli</i> rrnB operon
1536-1540	16S MBS (message binding sequence) GGGAU
1543-1982	16S-23S spacer region
1983-4886	23S rRNA of <i>Escherichia coli</i> rrnB operon
4887-4982	23S-5S spacer region
4983-5098	5S rRNA of <i>Escherichia coli</i> rrnB operon
5102-5145	terminator T1 of <i>Escherichia coli</i> rrnB operon
5276-5305	terminator T2 of <i>Escherichia coli</i> rrnB operon
6575-7432	<i>bla</i> (β -lactamase; ampicillin resistance)
7575-8209	replication origin
8813-8622	<i>rop</i> (Rop protein)
10201-9467	GFP (Green Fluorescent Protein)
10213-10209	GFP RBS (ribosome binding sequence) AUCCC
10270-10230	<i>trpc</i> promoter
10745-10785	<i>trpc</i> promoter
10802-10806	CAT RBS (ribosome binding sequence) AUCCC
10814-11473	<i>cam</i> (chloramphenicol acetyltransferase: CAT)
11782-11859	<i>lacI^q</i> promoter
11860-12942	<i>lacI^q</i> (lac repressor)
12985-13026	<i>lacUV5</i> promoter



MBS=message binding site=Anti-Shine-Dalgarno sequence
RBS=ribosome binding site=Shine-Dalgarno sequence

Fig. 1

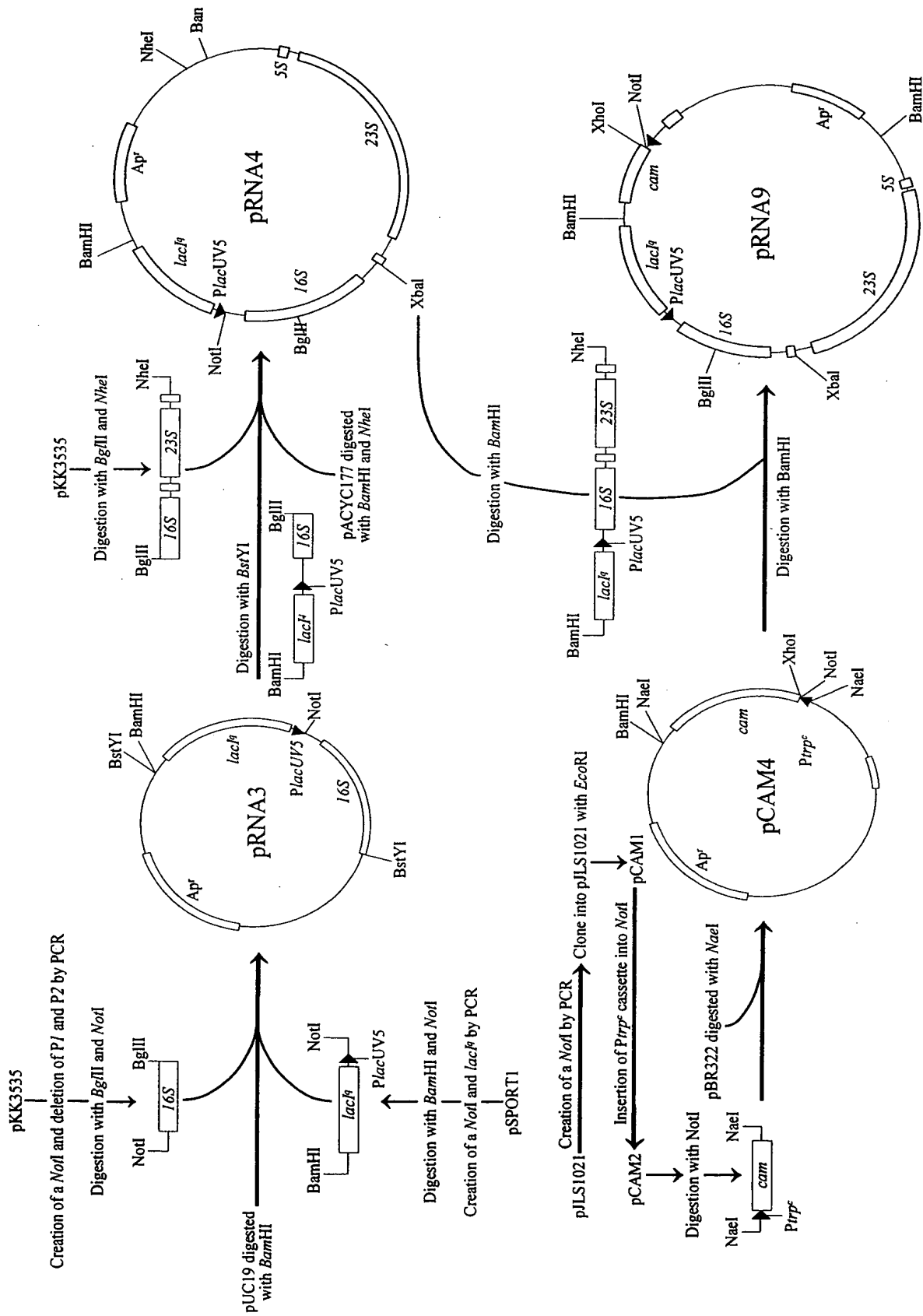


Fig. 2

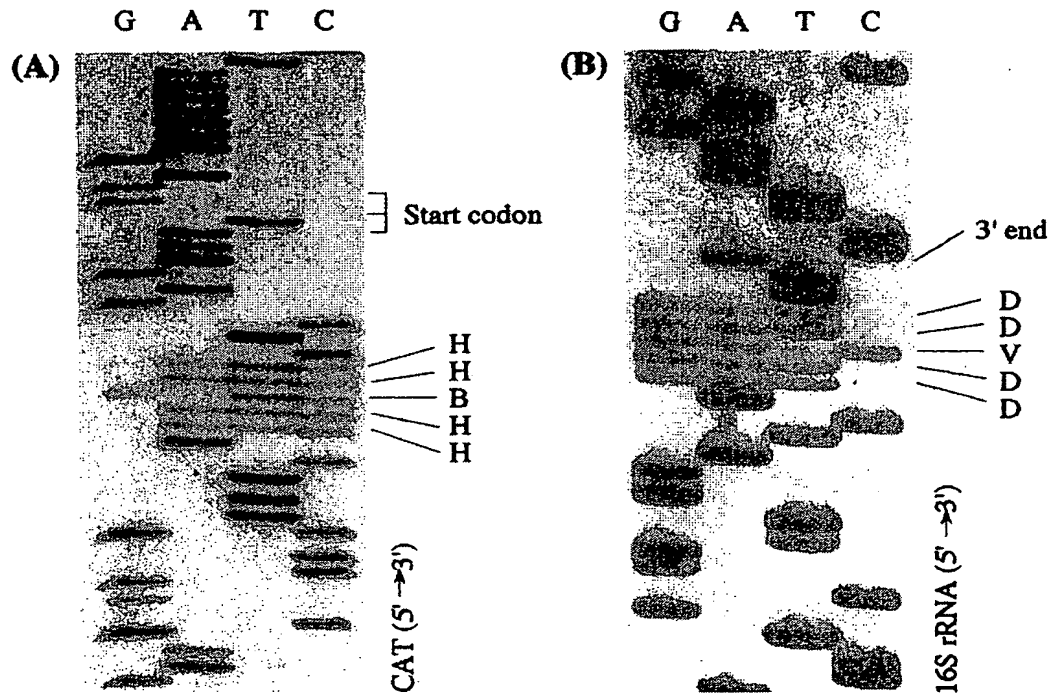
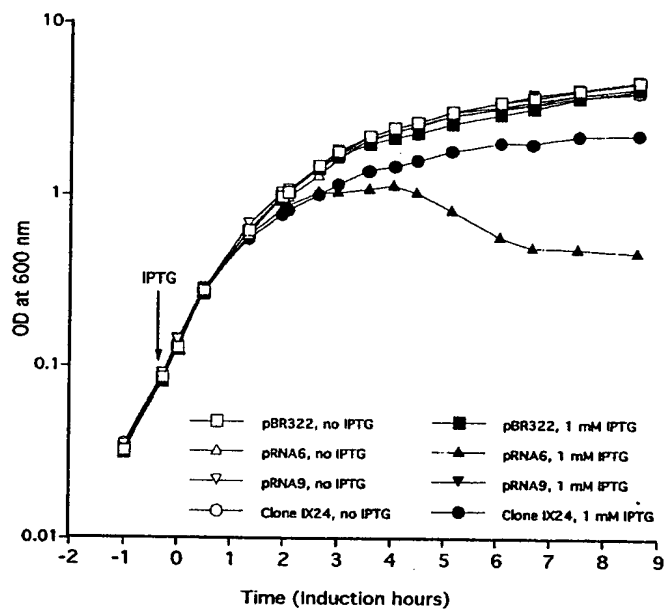


Fig. 3

*Fig. 4*

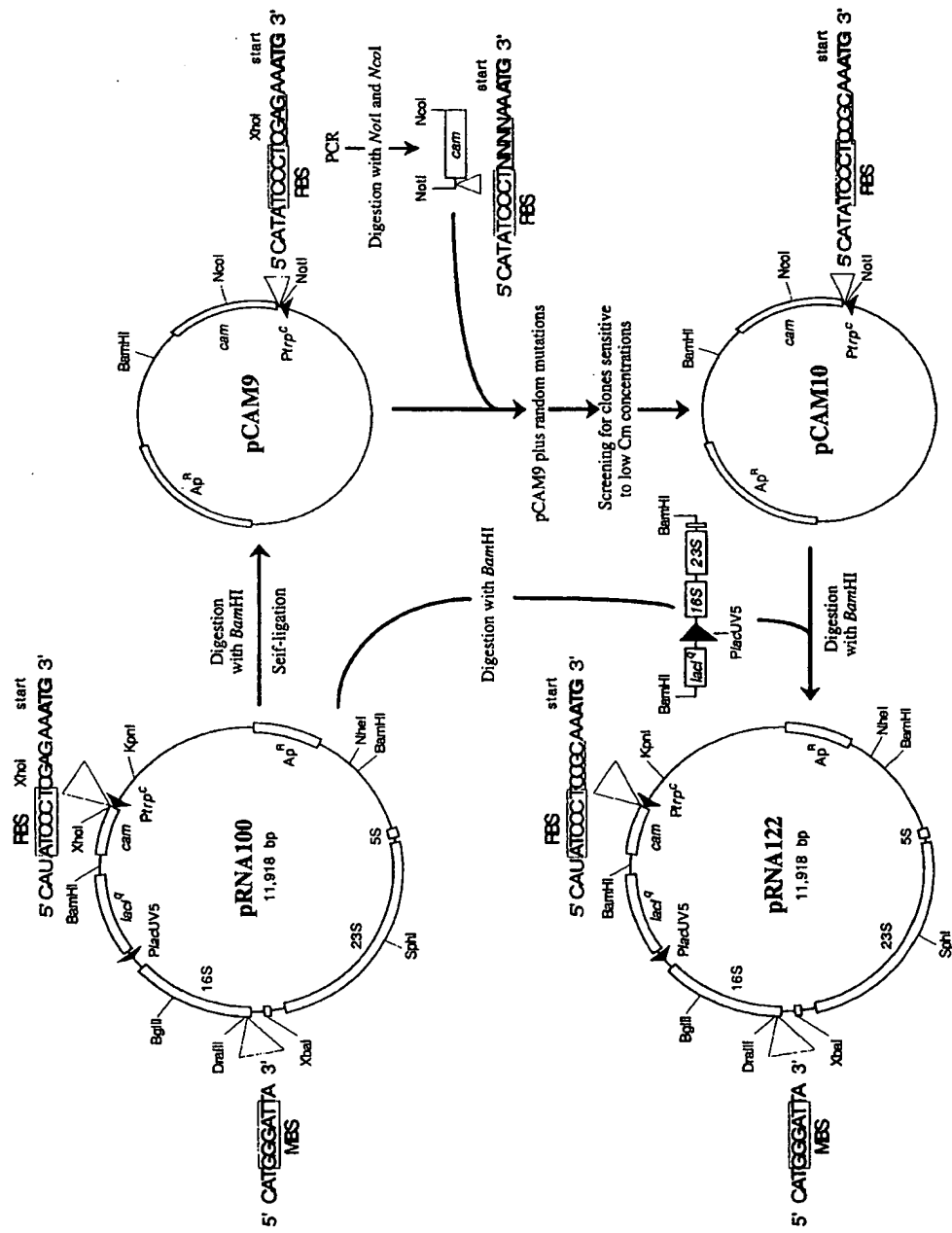


Fig. 5

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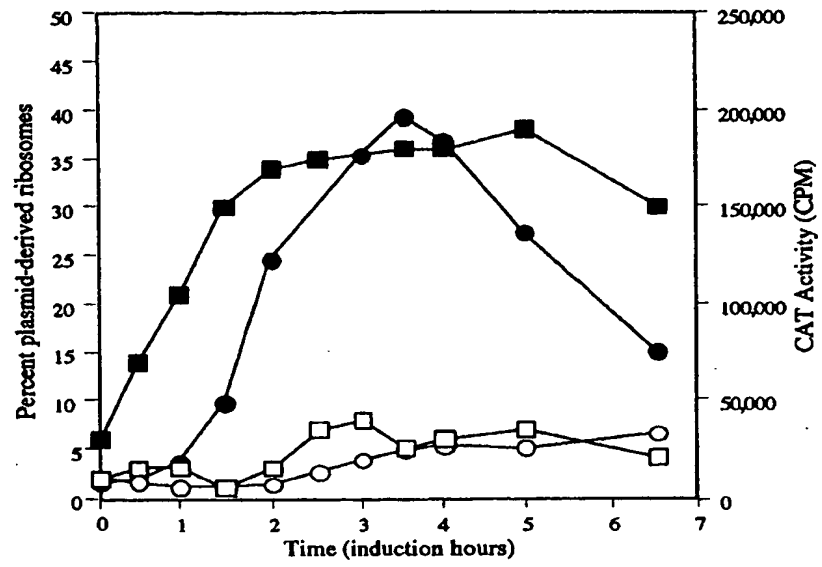


Fig. 6

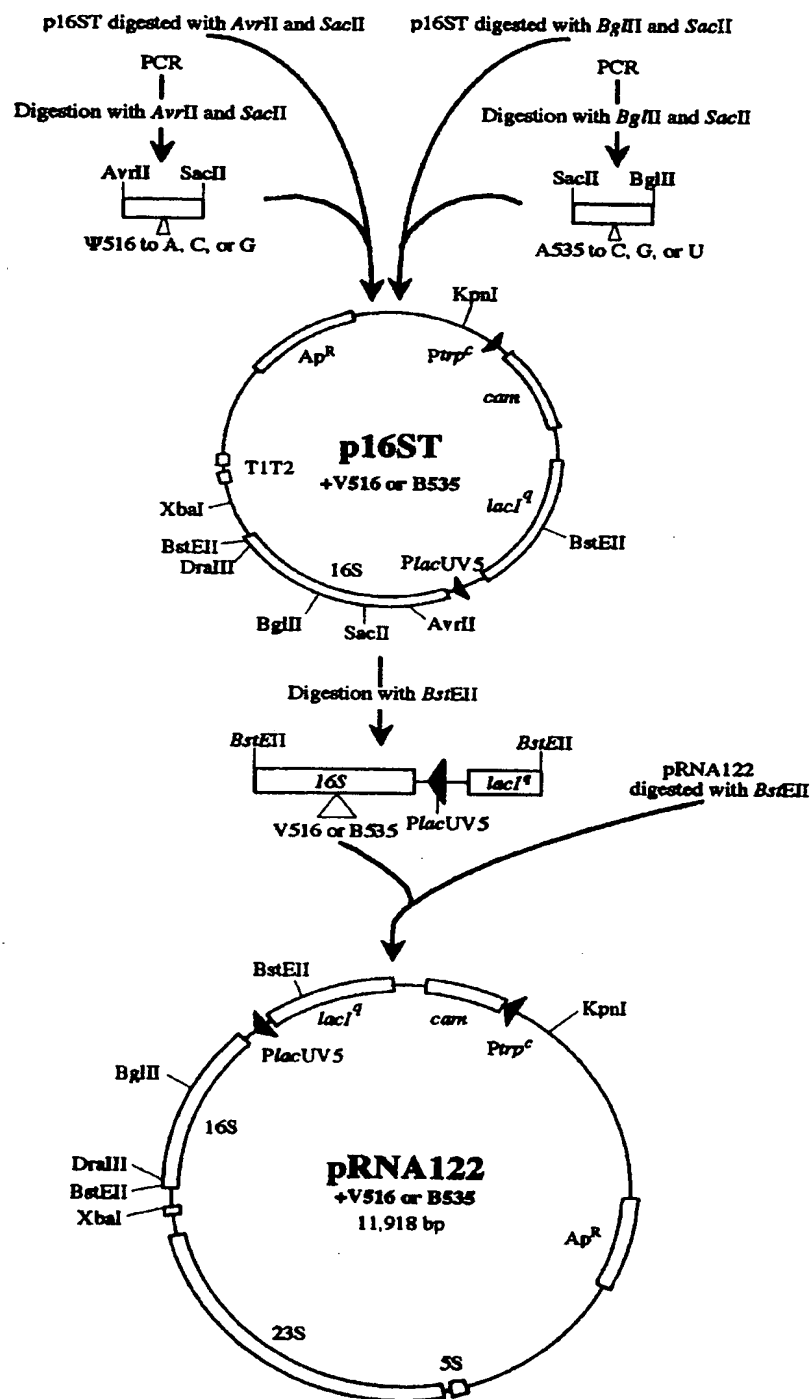
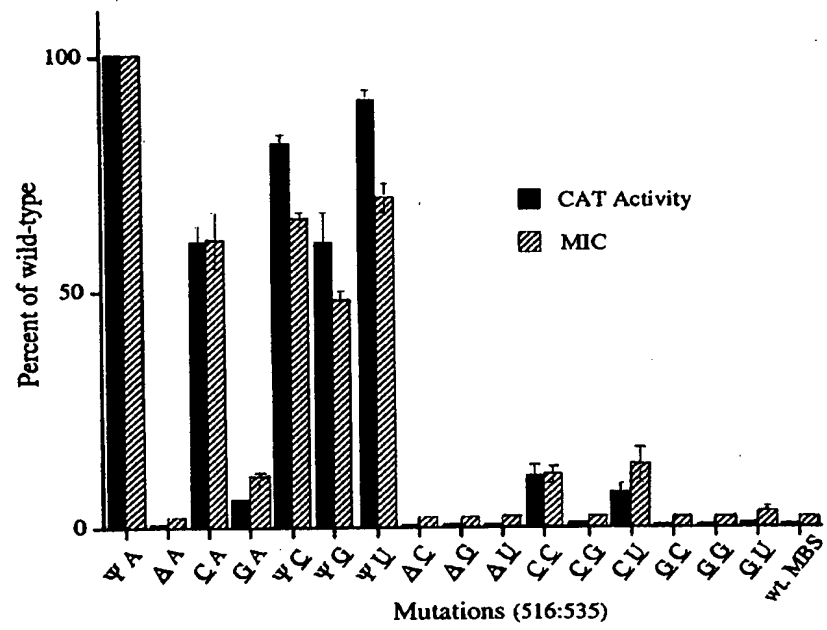


Fig. 7

*Fig. 8*

Oligo	Sequence (5' to 3')	Used for
OL2 IL2	ATAGGGGTTCCGGCGCACATT CTCGAGCTCTCTGAAAGCGGCGG CAACTCAAAAAATACGCCCGGT AGT	Primer cam from -268 to -249 Creating a NotI in the upstream of cam
OR2 IR2	AAATCGTCGTGTTTCACT GCGCGCGCTTCAGGAGGCTCGA GAAATGGAGAAAAAATCACT	Primer cam from 473 to 492 Creating a NotI in the upstream of cam
TRP'-T	GCGCGTAGCGCGGAGCTGTTG ACAATTAAATCATCGAACTAGTT TAATGTGTGGAAGC	Promoter <i>trp</i> ^c , top strand
TRP'-B	GGCGCTTCCACACATTAACTA GTCGATGATTAAATTGTCAACAG CTCGCGCGCTAGC	Promoter <i>trp</i> ^c , bottom strand
SD'-B SD'-T lacU	TCGAGCACACTGAAAGC GGCGGCTTTCAGTGTGC GGTCATAGGCGCGCTGTGTGA AATTGTTATCCGCTCACAAATCC ACACATTATACGAGCGCGAAGC TTGGATCCGACACCATCGAATGG TGCAAAACCTT	Mutated RBS for pCAM5; top strand Mutated RBS for pCAM5; bottom strand Creating a NotI and PlacUV5 mutation in the 3' end of <i>lacI</i>
lacL	GAAGGATCCGGCGGAAGATGTT CTCTGG	Creating a BamHI and <i>lacI</i> ^q mutation in the 5' end of <i>lacI</i>
OL4	GCGCGCGCTTAAATAATTTTCT GACC	Primer 16S rRNA from -707 to -689; creating a BamHI in the 5' end of 16S rRNA
IL4	CCACAAGCTTCGCACCTGAGCGT CAGTCTTC	Primer 16S rRNA from -351 to -333; deleting P1P2 and creating a NotI in the 5' end of 16S rRNA
OR4	AGAAAAAGCGAAGC GGGACTTTCACCTCACAAAC	Primer 16S rRNA from 745 to 765; creating a HindIII in the middle of 16S rRNA
IR4	GTGGAAGCTTGGTAACCGTAGGG GAACCTGGGTTGGATCACACAC TTACCTTAAAGAAGCGTAC	Primer 16S rRNA from -164 to -180; deleting P1P2 and creating a NotI in the 5' end of 16S rRNA
ASD'-B ASD'-T	TAAATGTGTGGAAGCGCGCTT TCATATCCCTNNNNAATGGAG AAAAAAATC	Primer tRNA ^{Glu} from +8 to +27 Primer 16S rRNA from 1504 to +16, mutating the MBS region from C1536UC1538 to A1536CA1538
Cat-M-XhoI	CAGCACCTTGTGCGCTTGC	Primer cam from -39 to +15; creating 4 nucleotide random mutations
Cat-N-NcoI		Primer cam from 688 to 706

Fig. 9

Plasmid	Description	Reference
pUC19	Cloning vector	(67)
pBR322	Cloning vector	(73)
pACYC177	Cloning vector	(72)
pKK3535	pBR322 derivative containing intact <i>rmB</i> operon	(31)
pSPORT1	pUC19 derivative containing <i>lacI</i>	(57)
pJLS1021	pBR322 derivative containing <i>cam</i>	(58)
pSTL102	pKK3535 containing U1192 in 16S rRNA and G2058 in 23S rRNA	(34)
pCAM1	pJLS1021 plus a <i>NotI</i> site in the upstream of <i>cam</i>	This study
pCAM2	pCAM1 plus <i>Prrpc</i> between <i>NotI</i> sites in the upstream of <i>cam</i>	This study
pCAM4	pBR322 plus the <i>NaeI</i> fragment of pCAM2 containing <i>cam</i> under <i>Prrpc</i>	This study
pCAM5	pCAM4 containing RBS (5'-GUGUG) of Hui et al. (1) in <i>cam</i>	This study
pCAM9	pCAM5 containing selected RBS (5'-AUCGCC) in <i>cam</i>	This study
pCAM10	pCAM9 containing selected upstream sequence of <i>cam</i>	This study
pRNA3	pUC19 plus <i>lacIq</i> and 5' end of 16S rRNA under <i>PlacUV5</i>	This study
pRNA4	pACYC177 plus <i>lacIq</i> and <i>rmB</i> with wild-type MBS under <i>Plac UV5</i>	This study
pRNA5	pRNA4 containing MBS (5'-CACAC) of Hui et al. (1) in 16S rRNA	This study
pRNA6	pCAM5 plus the <i>BamHI</i> fragment containing <i>lacIq</i> and <i>rmB</i> from pRNA5	This study
pRNA8	pCAM5 plus the <i>BamHI</i> fragment containing <i>lacIq</i> and <i>rmB</i> from pRNA4	This study
pRNA9	pCAM4 plus the <i>BamHI</i> fragment containing <i>lacIq</i> and <i>rmB</i> from pRNA4	This study
pRNA100	pRNA8 containing selected MBS (5'-GGGAU) and RBS (5'-AUCGCC)	This study
pRNA101	pRNA100 containing U1192 in 16S rRNA	This study
pRNA104	pRNA101 containing U2058 in 23S rRNA	This study
p16ST	pUC19 derivative containing <i>cam</i> , <i>lacIq</i> and 16S rRNA from pRNA100	This study
pRNA122	pRNA100 containing selected upstream sequence of <i>cam</i> from pCAM10	This study
pRNA170	pRNA122 containing U1192 in 16S rRNA and U2058 in 23S rRNA	This study

Fig. 10

MIC with no induction	MIC with induction									
	50	100	200	400	500	600	700	800	1000	
50			4	1						
100		1	1	51	16	6	1			
200			3	121	45	10	2			
400				72	72	22	1	1		
600				4	11	20	3	60	3	
700							1	3		
800									1	
1000										

Fig. 11

Clone	RNA sequences	ΔG_{37}^0	MIC		CAT		Induction
			$\mu\text{g of Cm/ mL}$		CPM		
		kcal/mol	-I	+I	-I	+I	-I/+I
Random	5' C A <u>R1</u> <u>R2</u> <u>R3</u> <u>R4</u> <u>R5</u> C U C G 3' CAT mRNA 3' A U U <u>M5</u> <u>M4</u> <u>M3</u> <u>M2</u> <u>M1</u> A C U 5' 16S rRNA						
pRNA9	5' C A <u>G G A G G C</u> C U C G 3' 3' A U U <u>C C U C C A</u> A C U 5'	-9.8	500	500	2803 \pm 68	2700 \pm 196	1.0
pRNA6	5' C A <u>G G G U G C</u> C U C G 3' 3' A U U <u>C A C A C A</u> A C U 5'	-7.8	100	200	4033 \pm 1040	12437 \pm 2491	3.1
VII30	5' C A <u>U A U C C C U C G</u> 3' 3' A U U <u>U A G G G A C</u> U 5'	-8.4	100	500	6293 \pm 706	72206 \pm 706	11.5
VII43	5' C A A A C <u>A C C U C G</u> 3' 3' A U U <u>U G G A G A</u> C A C U 5'	-8.1	125	500	5603 \pm 1011	47667 \pm 891	8.5
VII64, VII65	5' C A <u>U A C C U C U C G</u> 3' 3' A U U <u>U G G A G A</u> U A C U 5'	-7.3	100	500	6200 \pm 953	37311 \pm 3978	6.0
VIII29	5' C A <u>U A A U C C C U C G</u> 3' 3' A U U <u>A G G A G A</u> A C U 5'	-10.9	125	600	7869 \pm 416	91153 \pm 4003	11.6
VIII46	5' C A A A <u>U A C C C U C G</u> 3' 3' A U U <u>U G G A G U</u> A C U 5'	-7.7	100	500	6431 \pm 816	46840 \pm 796	7.3
VIII77	5' C A C A <u>U A C C C U C G</u> 3' 3' A U U <u>U G G A G U</u> A C U 5'	-7.7	150	600	6794 \pm 650	44358 \pm 4841	6.5
VIII93	5' C A C C <u>A C C C U C G</u> 3' 3' A U U <u>U G G A G A</u> A C U 5'	-8.5	100	500	5643 \pm 897	24888 \pm 2388	4.4
IX24	5' C A <u>U A U C C C U C G</u> 3' 3' A U U <u>A G G G U</u> A C U 5'	-7.3	100	650	7524 \pm 263	91809 \pm 4542	12.7
IX32	5' C A C <u>A C C C U C G</u> 3' 3' A U U <u>U G G A G U</u> A C U	-7.7	100	500	5783 \pm 971	32164 \pm 5862	5.6
IX67	5' C A <u>U A U C C C U C G</u> 3' 3' A U U <u>U G G A G A</u> A C U 5'	-8.0	125	600	6063 \pm 787	24581 \pm 3009	4.1

Fig. 12

Clone	RNA sequences		MIC	
			(μg/mL)	
Mutated positions	5' CAUAUCCCUUNNNAAUG3' CAT mRNA		-1	+1
	3'AUUAGGGUACUAGG5'	16S rRNA		
pRNA100	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUAGGGUACUAGG5'		100	650
pRNA100 + wt MBS	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUCCCUUCCGAGAAAUUG3'		50	50
pRNA122	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUAGGGUACUAGG5'		50	600
pRNA122 + wt MBS	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUCCCUUCCGAGAAAUUG3'		10	10
pRNA125	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUAGGGUACUAGG5'		80	600
pRNA127	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUAGGGUACUAGG5'		50	600
pRNA128	5' CAUAUCCCUUCCGAGAAAUUG3' 3'AUAUAGGGUACUAGG5'		50	600

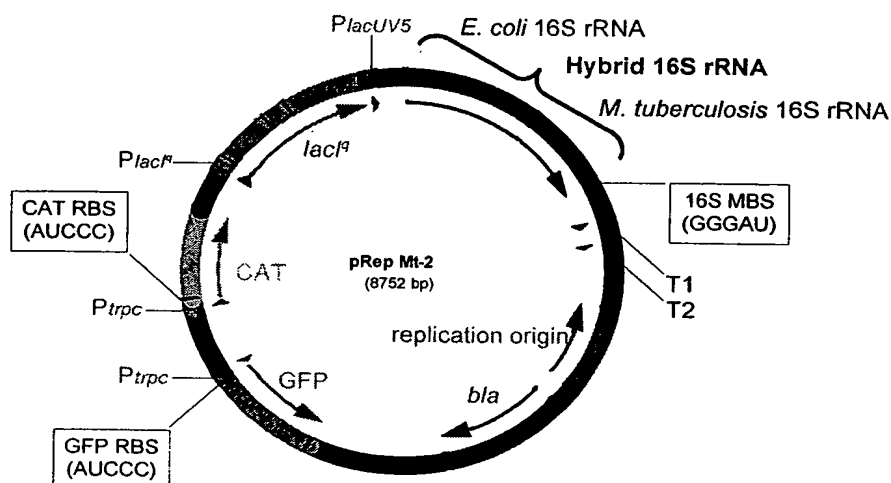
Fig. 13

Residue at 516	Percent plasmid-derived 30S in			% CAT
	30S peak	70S peak	Crude ribosomes	
Ψ	46.5 ± 3.6	53.0 ± 4.5	47.8 ± 2.8	100
A	54.2 ± 5.4	10.6 ± 1.4	37.5 ± 3.9	0
C	51.8 ± 0.2	27.1 ± 2.9	42.9 ± 5.8	59.4
G	67.5 ± 6	8.8 ± 0.9	44.1 ± 5.2	6.3

Fig. 14

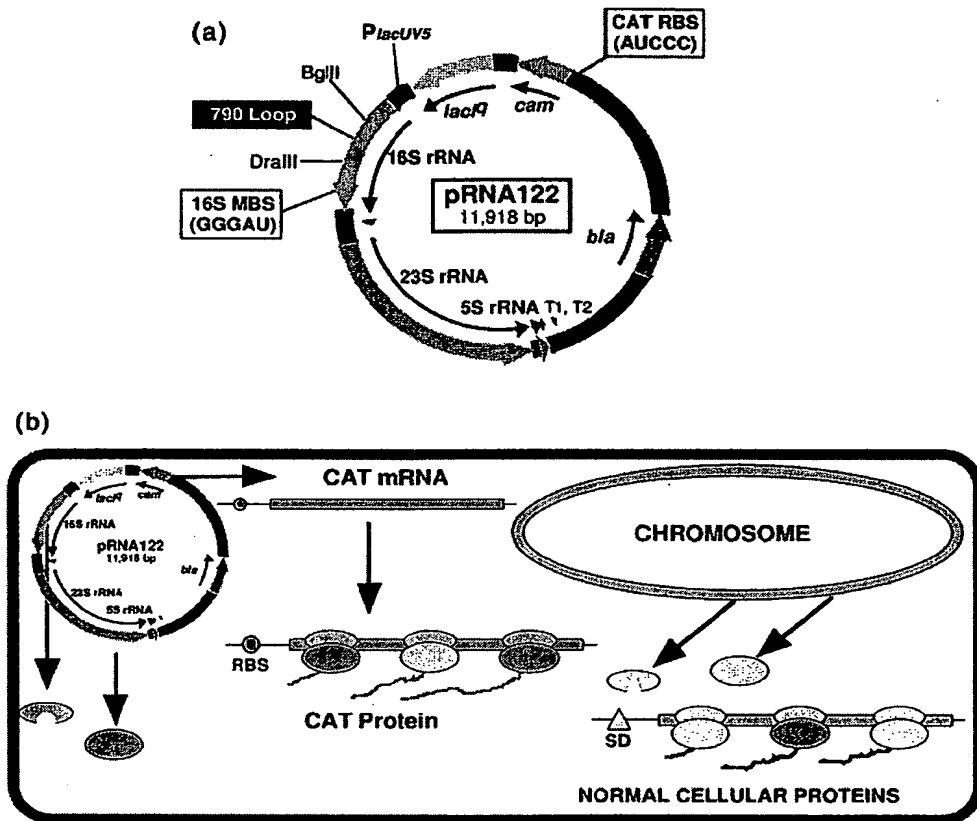
Clone	Alignment of CAT mRNA and 16S rRNA														MIC (μg of Cm/mL)		ΔG_{37}° (kcal/mol)
	Random	5' C A R1 R2 R3 R4 R5 C U C O 3'	3' A U U N2 N4 N2 N2 N1 A C U 5'	CAT mRNA	16S rRNA	no IPTG	1 mM IPTG										
25		5' C A U A Q Q A C U C G 3'	3' A U U A U Q Q U A C U 5'			200	400	-6.8									
26		5' C A A Q U A A C U C G 3'	3' A U U Q U Q A U A C U 5'			100	200	-3.4									
27		5' C A A A U A U C U C G 3'	3' A U U A U Q Q A A C U 5'			100	400	-5.3									
28		5' C A A A U A U C U C G 3'	3' A U U A Q A Q Q A C U 5'			200	400	-1.6									
29		5' C A Q U Q Q U C U C G 3'	3' A U U A Q Q A Q A C U 5'			50	100	-9.1									
30		5' C A U A U U Q C U C G 3'	3' A U U A A Q Q U A C U 5'			100	400	-5.3									
31		5' C A A Q Q U A C U C G 3'	3' A U U A Q A C U 5'			50	200	-3.1									
32		5' C A A U Q Q A C U C G 3'	3' A U U A Q A C U 5'			100	400	-4.5									
33		5' C A A Q Q Q Q C U C G 3'	3' A U U Q Q Q A Q A C U 5'			100	400	-7.2									
34		5' C A A A Q A U C U C G 3'	3' A U U Q U A Q A A C U 5'			200	400	-8									
35		5' C A U Q Q Q A C U C G 3'	3' A U U A Q Q Q A C U 5'			50	200	-5									
36		5' C A Q U Q A U C U C G 3'	3' A U U A Q Q A Q A C U 5'			200	500	-3.9									
37		5' C A U A U Q Q C U C G 3'	3' A U U U A Q Q Q A C U 5'			100	500	-8.4									
38		5' C A A A Q A Q C U C G 3'	3' A U U Q Q A Q A A C U 5'			150	500	-8.1									
39		5' C A A Q Q A A C U C G 3'	3' A U U Q U Q A Q A C U 5'			100	400	-5.7									
40		5' C A U Q U A U C U C G 3'	3' A U U A Q A Q A C U 5'			100	400	-6.2									
41		5' C A U A Q Q U C U C G 3'	3' A U U Q Q A Q U A C U 5'			100	500	-7.3									
42		5' C A U A U A A C U C G 3'	3' A U U A Q A Q A A C U 5'			200	500	-3.6									
43		5' C A A A U A Q C U C G 3'	3' A U U U Q Q A Q U A C U 5'			100	500	-7.7									
44		5' C A Q A U A Q C U C G 3'	3' A U U U Q Q A Q U A C U 5'			150	600	-7.7									
45		5' C A Q Q Q A Q C U C G 3'	3' A U U U Q Q A Q A A C U 5'			100	500	-8.5									
46		5' C A U A U Q Q C U C G 3'	3' A U U U Q Q Q U A C U 5'			100	700	-7.3									
47		5' C A A Q U A Q C U C G 3'	3' A U U U Q Q A Q U A C U 5'			100	500	-7.7									
48		5' C A U A U A Q C U C G 3'	3' A U U U Q Q A Q A A C U 5'			200	600	-8									

Fig. 16



Nucleotide	Description
1-931	part of 16S rRNA from <i>Escherichia coli</i> rmB operon
932-1542	part of 16S rRNA from <i>Mycobacterium tuberculosis</i> rm operon
1536-1540	16S MBS (message binding sequence) GGGAU
1791-1834	terminator T1 of <i>Escherichia coli</i> rmB operon
1965-1994	terminator T2 of <i>Escherichia coli</i> rmB operon
3054-2438	replication origin
3214-4074	<i>bla</i> (β -lactamase; ampicillin resistance)
5726-4992	GFP (Green Fluorescent Protein)
5738-5734	GFP RBS (ribosome binding sequence) AUCCC
5795-5755	<i>trpc</i> promoter
6270-6310	<i>trpc</i> promoter
6327-6331	CAT RBS (ribosome binding sequence) AUCCC
6339-6998	<i>cam</i> (chloramphenicol acetyltransferase; CAT)
7307-7384	<i>lacI^q</i> promoter
7385-8467	<i>lacI^q</i> (lac repressor)
8510-8551	<i>lacUV5</i> promoter

Fig. 17

*Fig. 18*

MIC ^a (μg/ml)	787	788	789	Nucleotide sequence ^b			793	794	795	Number of mutations ^c	Number of occurrences ^d
				790	791	792					
600 ^e	A	U	U	A	G	A	U	A	C	0	WT
550	A	U	U	A	G	A	U	A	A	2	1
500	A	U	U	A	G	A	U	A	A	3	1
500	A	A	U	A	G	A	U	A	A	2	1
500	A	A	U	A	G	A	U	A	A	4	1
450	A	U	U	A	G	A	U	A	A	1	1
450	A	U	U	A	G	A	U	A	A	2	1
450	A	C	U	A	G	A	U	A	A	5	1
450	A	C	U	A	G	A	U	A	A	3	1
450	A	A	U	A	G	A	U	A	A	1	2
450	A	A	U	A	G	A	U	A	A	4	1
450	A	A	U	A	G	A	U	A	A	5	1
400	A	A	U	A	G	A	U	A	A	4	1
400	A	A	U	A	G	A	U	A	A	2	1
400	A	A	U	A	G	A	U	A	A	3	2
400	A	A	U	A	G	A	U	A	A	4	2
350	A	U	U	A	G	A	U	A	A	2	1
350	A	U	U	A	G	A	U	A	A	2	2
350	A	U	U	A	G	A	U	A	A	3	3
350	A	U	U	A	G	A	U	A	A	3	2
350	A	U	U	A	G	A	U	A	A	4	2
350	A	U	U	A	G	A	U	A	A	3	2
350	A	U	U	A	G	A	U	A	A	4	2
350	A	U	U	A	G	A	U	A	A	3	1
350	A	U	U	A	G	A	U	A	A	4	1
350	A	U	U	A	G	A	U	A	A	2	1
350	A	U	U	A	G	A	U	A	A	2	1
350	A	U	U	A	G	A	U	A	A	3	1
350	A	U	U	A	G	A	U	A	A	4	3
350	A	U	U	A	G	A	U	A	A	3	1
350	A	U	U	A	G	A	U	A	A	4	2
350	A	U	U	A	G	A	U	A	A	3	1
350	A	U	U	A	G	A	U	A	A	4	1
350	A	U	U	A	G	A	U	A	A	3	1
350	A	U	U	A	G	A	U	A	A	2	1
350	A	U	U	A	G	A	U	A	A	4	2
350	A	U	U	A	G	A	U	A	A	4	3
350	A	U	U	A	G	A	U	A	A	5	1
350	A	U	U	A	G	A	U	A	A	3	2
350	A	U	U	A	G	A	U	A	A	3	1
350	A	U	U	A	G	A	U	A	A	6	1
350	A	U	U	A	G	A	U	A	A	5	1
350	A	U	U	A	G	A	U	A	A	6	1
300	A	U	U	A	G	A	U	A	A	2	1
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300	A	U	U	A	G	A	U	A	A	2	1
300	A	U	U	A	G	A	U	A	A	5	2
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	4	1
250	A	U	U	A	G	A	U	A	A	2	1
250	A	U	U	A	G	A	U	A	A	3	3
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250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	4	1
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	3	1
250	A	U	U	A	G	A	U	A	A	4	1
250	A	U	U	A	G	A	U	A	A	6	1
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	6	2
250	A	U	U	A	G	A	U	A	A	5	1
250	A	U	U	A	G	A	U	A	A	6	2
250	A	U	U	A	G	A	U	A	A	6	1
200	A	U	U	A	G	A	U	A	A	2	1
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200	A	U	U	A	G	A	U	A	A	3	1
200	A	U	U	A	G	A	U	A	A	5	1
200	A	U	U	A	G	A	U	A	A	5	1
200	A	U	U	A	G	A	U	A	A	4	1
200	A	U	U	A	G	A	U	A	A	6	1
200	A	U	U	A	G	A	U	A	A	5	1
200	A	U	U	A	G	A	U	A	A	5	1
150	A	U	U	A	G	A	U	A	A	5	1

Fig. 19

Nucleotide	787	788	789	790	791	792	793	794	795
<i>A. Nucleotide distribution of functional mutants^a</i>									
A	<u>54</u>	24	0	<u>69</u>	0	<u>15</u>	18	<u>35</u>	16
C	2	16	0	<u>8</u>	0	<u>24</u>	26	<u>5</u>	<u>34</u>
G	22	21	0	1	<u>78</u>	16	4	9	7
U	0	<u>17</u>	<u>78</u>	0	0	23	<u>30</u>	29	21
Consensus	R	N	U	M	G	N	H	W	H
<i>B. Nucleotide distribution in all known bacteria^b</i>									
A	<u>573</u>	0	0	<u>578</u>	1	<u>578</u>	0	<u>577</u>	0
C	3	0	0	<u>0</u>	1	<u>0</u>	0	<u>1</u>	<u>578</u>
G	1	0	0	0	<u>576</u>	0	3	0	<u>0</u>
U	1	<u>578</u>	<u>578</u>	0	<u>0</u>	0	<u>575</u>	0	<u>0</u>
Consensus	A	U	U	A	G	A	U	A	C
<i>C. Nucleotide distribution in all known organisms^c</i>									
A	<u>1657</u>	2	1	<u>1648</u>	2	<u>1655</u>	5	<u>1664</u>	1
C	6	1	566	<u>9</u>	1	<u>1</u>	12	<u>1</u>	<u>1665</u>
G	4	0	0	3	<u>1662</u>	7	46	2	<u>0</u>
U	1	<u>1664</u>	<u>1101</u>	7	<u>3</u>	3	<u>1605</u>	1	<u>0</u>
A	0	1	0	1	0	2	0	0	2
Consensus	A	U	Y	A	G	A	U	A	C

Fig. 20

Nucleotide ^a		Mean CAT activity ^b	% Mutant 30 S in		Thermodynamics ^d	
787	795		30 S peak ^c	70 S peak ^c	ΔG_{37}° (kcal/mol)	T_m (°C)
A	C	100	46.1 ± 0.8	41.7 ± 3.3	-3.25	61.8
A	<u>A</u>	83.8 ± 2.5	n.d.	n.d.	-2.90	61.3
C	<u>C</u>	80.5 ± 0.5	n.d.	n.d.	-2.84	60.7
C	U	74.1 ± 3.4	n.d.	n.d.	n.d.	n.d.
A	<u>U</u>	72.1 ± 4.5	74.3 ± 0.5	14.3 ± 1.0	-5.62	75.3
U	<u>U</u>	72.0 ± 2.4	n.d.	n.d.	n.d.	n.d.
G	<u>U</u>	70.5 ± 1.8	56.1 ± 1.4	14.2 ± 0.6	-4.96	68.1
U	<u>C</u>	65.5 ± 2.1	n.d.	n.d.	-2.88	60.6
C	<u>A</u>	53.4 ± 1.0	n.d.	n.d.	n.d.	n.d.
G	<u>G</u>	52.9 ± 0.4	n.d.	n.d.	-3.70	64.9
A	<u>A</u>	46.0 ± 1.4	n.d.	n.d.	n.d.	n.d.
A	<u>G</u>	37.5 ± 0.5	n.d.	n.d.	-3.19	63.5
U	<u>A</u>	36.7 ± 0.4	70.8 ± 7.4	10.1 ± 0.4	-5.82	74.3
U	<u>G</u>	13.5 ± 3.3	57.7 ± 12.1	5.5 ± 3.4	-5.15	69.4
C	<u>C</u>	5.5 ± 1.8	58.3 ± 8.2	5.1 ± 1.3	-7.61	83.4
C	<u>G</u>	1.2 ± 0.1	n.d.	n.d.	n.d.	n.d.

Fig. 21

GACGCCGGGCAAGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACT
 TGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGT
 AAGAGAATTATGCAGTGCTGCCATAACCATGAGTGATAAACTGCGGCCAAC
 TTACTTCTGACAACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACA
 ACATGGGGGATCATGTAACTCGCCTTGATCGTTGGGAACCGGAGCTGAATGA
 AGCCATACCAAACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAAC
 AACGTTGCGCAAACCTATTAACCTGGCGAACTACTTACTCTAGCTTCCCGGCAA
 CAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCT
 CGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCG
 TGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGT
 ATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAAT
 AGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCTGTCAG
 ACCAAGTTTACTCATATATACTTTAGATTGATTTAAACTTCATTTTTAATTT
 AAAAGGATCTAGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTT
 AACGTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCTTAATAAGATGATCTTCT
 TGAGATCGTTTTTGGTCTGCGCGTAATCTCTTGCTCTGAAAACGAAAAAACCG
 CCTTGCAGGGCGGTTTTTCGAAGGTTCTCTGAGCTACCAACTCTTTGAACCGA
 GGTAACCTGGCTTGGAGGAGCGCAGTCACCAAACTTGTCCTTTCAGTTTAGC
 CTTAACCGGGCGCATGACTTCAAGACTAACTCCTCTAAATCAATTACCAGTGG
 CTGCTGCCAGTGGTGCTTTTGCATGTCTTCCGGGTTGGACTCAAGACGATAG
 TTACCGGATAAGGCGCAGCGGTTCGACTGAACGGGGGGTTCGTGCATACAG
 TCCAGCTTGGAGCGAACTGCCTACCCGGAACCTGAGTGTGAGGCGTGGAATGA
 GACAAACGCGGCCATAACAGCGGAATGACACCGGTAAACCGAAAGGCAGGA
 ACAGGAGAGCGCACGAGGGAGCCGCCAGGGGGAAACGCCTGGTATCTTTAT
 AGTCCTGTGCGGTTTTCGCCACCACTGATTTGAGCGTCAGATTTCTGTGATGCTT
 GTCAGGGGGGGCGGAGCCTATGGAAAAACGGCTTTGCCGCGGCCCTCTCACTT
 CCCTGTAAAGTATCTTCCTGGCATCTTCCAGGAAATCTCCGCCCCGTTTCGTAA
 GCCATTTCCGCTCGCCGCAGTCGAACGACCGAGCGTAGCGAGTCAGTGAGCG
 AGGAAGCGGAATATATCCTGTATCACATATTCTGCTGACGCACCGGTGCAGC
 CTTTTTCTCCTGCCACATGAAGCACTTCACTGACACCCTCATCAGTGCCAAC
 ATAGTAAGCCAGTATACACTCCGCTAGCATCGTCCATTCCGACAGCATCGCC
 AGTCACTATGGCGTGCTGCTAGCGCTATATGCGTTGATGCAATTTCTATGCGC
 ACCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCG
 CTTCGCTACTTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGT
 CCTGTGGATCCTCTACGCCGGACGCATCGTGGCCGGCCACGATGCGTCCGGC
 GTAGAGGATCTATTTAACGACCCTGCCCTGAACCGACGACCGGGTTCGAATTT
 GCTTTCGAATTTCTGCCATTCATCCGCTTATTATCACTTATTCAGGCGTAGCA
 CCAGGCGTTTAAGGGCACCAATAACTGCCTTAAAAAAATTACGCCCCGCCCT
 GCCACTCATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGACATGGAA
 GCCATCACAGACGGCATGATGAACCTGAATCGCCAGCGGCATCAGCACCTTG
 TCGCCTTGCGTATAATATTTGCCCATGGTGAAAACGGGGGCGAAGAAGTTGT
 CCATATTGGCCACGTTTAAATCAAACTGGTGAACTCACCCAGGGATTGGC
 TGAGACGAAAAACATATTCTCAATAAACCTTTAGGGAAATAGGCCAGGTTT
 TCACCGTAACACGCCACATCTTGCGAATATATGTGTAGAACTGCCGGAAAT
 CGTCGTGGTATTCACTCCAGAGCGATGAAAACGTTTCAGTTTGCTCATGGAA

Fig. 22

AACGGTGTAAACAAGGGTGAACACTATCCCATATCACCAGCTCACCGTCTTTC
ATTGCCATACGGAATTCCGGATGAGCATTTCATCAGGCGGGCAAGAATGTGAA
TAAAGGCCGGATAAACTTGTGCTTATTTTTCTTTACGGTCTTTAAAAAGGCC
GTAATATCCAGCTGAACGGTCTGGTTATAGGTACATTGAGCAACTGACTGAA
ATGCCTCAAAATGTTCTTTACGATGCCATTGGGATATATCAACGGTGGTATAT
CCAGTGATTTTTTTCTCCATTTCTCGAGCACACTGAAAGCGGCCGCTTCCACA
CATTAAACTAGTTCGATGATTAATTGTCAACAGCTCGCCGCTATATGCGTTGA
TGCAATTTCTATGCGCACCCGTTCTCGGAGCACTGTCCGACCGCTTTGGCCGC
CGCCCAGTCCTGCTCGCTTCGCTACTTGGAGCCACTATCGACTACGCGATCAT
GGCGACCACACCCGTCCTGTGGATCCCAGACGAGTTAAGTCACCATACGTTA
GTACAGGTTGCCACTCTTTTGGCAGACGCGAGACCTACGGCTACAATAGCGAA
GCGGTCTTGGTATTTCATGTTTAAAAATACTGTGCGGATAGCCAAAACGGCAC
TCTTTGGCAGTTAAGCGCACTTGCTTGCTGTCGCCAGTTCAACAGAATCAAC
ATAAGCGCAAACCTCGCTGTAATTCTACGCCATAAGCACCAATATTCTGGATA
GGTGATGAGCCGACACAACCAGGAATTAATGCCAGATTTTCCAGACCAGGC
ATACCTTCCTGCAAAGTGATTTTACCAGACGATGCCAGTTTCTCCGGCTCC
TACATGTAAATACCACGCATCAGGTTTCATCATGAATTTTCGATACCTTTGATCC
GGTTGATGATCACCGTGCCGCGATAGTCCTCCAGAAAAAGTACATTACTTCC
TTCACCCAGAATAAGAACGGGTTGTCCTTCTGCGGTTGCATACTGCCAGGCA
TTGAGTAATTGTTGTTTCGTCTTCGGCACATAACAATGTGCTGAGCATTATGATC
AATGCCAAATGTGTTCCAGGGTTTTAAGGAGTGGTTTCATAGCTGCTTTCCTGA
TGCAAAAACGAGGCTAGTTTACCGTATCTGTGGGGGGATGGCTTGTAGATAT
GACGACAGGAAGAGTTTGTAGAAACGCAAAAAGGCCATCCGTCAGGATGGC
CTTCTGCTTAATTTGATGCCTGGCAGTTTATGGCGGGCGTCCTGCCCGCCACC
CTCCGGGGCCGTTGCTTCGCAACGTTCAAATCCGCTCCCGGCCGATTGTGCTTA
CTCAGGAGAGCGTTCACCGACAAACAACAGATAAAACGAAAGGCCAGTCT
TTCGACTGAGCCTTTCGTTTTATTTGATGCCTGGCAGTTCCCTACTCTCGCAT
GGGGAGACCCACACTACCATCGGCGCTACGGCGTTTCACTTCTGAGTTCCG
CATGGGGTCAGGTGGGACCACCGCGCTACTGCCGCCAGGCAAATTCGTGTTT
ATCAGACCGCTTCTGCGTTCTGATTTAATCTGTATCAGGCTGAAAATCTTCTC
TCATCCGCCAAAACAGCTTCGGCGTTGTAAGGTTAAGCCTCACGGTTCATTA
GTACCGGTTAGCTCAACGCATCGCTGCGCTTACACACCCGGCCTATCAACGT
CGTCGTCTTCAACGTTCCCTCAGGACCCTTAAAGGGTCAGGGAGAACTCATC
TCGGGGCAAGTTTCGTGCTTAGATGCTTTCAGCACTTATCTCTTCCGCATTTA
GCTACCGGGCAGTGCCATTGGCATGACAACCCGAACACCAGTGATGCGTCCA
CTCCGGTCCTCTCGTACTAGGAGCAGCCCCCTCAGTTCTCCAGCGCCACG
GCAGATAGGGACCGAACTGTCTCACGACGTTCTAAACCCAGCTCGCGTACCA
CTTTAAATGGCGAACAGCCATACCCTTGGGACCTACTTCAGCCCCAGGATGT
GATGAGCCGACATCGAGGTGCCAAACACCGCCGTCGATATGAACTCTTGGGC
GGTATCAGCCTGTTATCCCCGGAGTACCTTTTATCCGTTGAGCGATGGCCCTT
CCATTCAGAACACCGGATCACTATGACCTGCTTTCGCACCTGCTCGCGCCGT
CACGCTCGCAGTCAAGCTGGCTTATGCCATTGCACTAACCTCCTGATGTCCG
ACCAGGATTAGCCAACCTTCGTGCTCCTCCGTTACTCTTTAGGAGGAGACCG
CCCCAGTCAAACCTACCCACCAGACACTGTCCGCAACCCGGATTACGGGTCAA
CGTTAGAACATCAAACATTAAAGGGTGGTATTTCAAGGTCGGCTCCATGCAG

Fig. 22

Cont.

ACTGGCGTCCACACTTCAAAGCCTCCCACCTATCCTACACATCAAGGCTCAA
 TGTTCAAGTGTCAAGCTATAGTAAAGGTTACAGGGGTCTTTCCGTCTTGCCGCG
 GGTACACTGCATCTTCACAGCGAGTTCAATTTCACTGAGTCTCGGGTGGAGA
 CAGCCTGGCCATCATTACGCCATTTCGTGCAGGTCGGAACCTACCCGACAAGG
 AATTTTCGTACCTTAGGACCGTTATAGTTACGGCCGCCGTTTACCGGGGCTTC
 GATCAAGAGCTTCGCTTGCGCTAACCCCATCAATTAACCTTCCGGCACCAGG
 CAGGCGTCACACCGTATACGTCCACTTTTCGTGTTTGACACAGTGCTGTGTTTT
 AATAAACAGTTGCAGCCAGCTGGTATCTTCGACTGATTTACAGCTCCATCCGC
 GAGGGACCTCACCTACATATCAGCGTGCCTTCTCCCGAAGTTACGGCACCAT
 TTTGCCTAGTTCTTCACCCGAGTTCTCTCAAGCGCCTTGGTATTCTCTACCTG
 ACCACCTGTGTGCGTTTGGGGTACGATTTGATGTTACCTGATGCTTAGAGGCT
 TTTCTGGAAGCAGGGCATTGTTGCTTCAGCACCGTAGTGCCTCGTCATCAC
 GCCTCAGCCTTGATTTTCCGGATTGCTGGAACACAGCCTACACGCTTAA
 ACCGGGACAACCGTCGCCCCGGCCAACATAGCCTTCTCCGTCCCCCTTCGCA
 GTAACACCAAGTACAGGAATATTAACCTGTTTCCCATCGACTACGCCTTTCG
 GCCTCGCCTTAGGGGTCGACTCACCTGCCCCGATTAACGTTGGACAGGAAC
 CTTGGTCTTCCGGCGAGCGGGCTTTTACCCGCTTTATCGTTACTTATGTCA
 GCATTCGCACTTCTGATACCTCCAGCATGCCTCACAGCACACCTTCGCAGGCT
 TACAGAACGCTCCCCTACCCAACAACGCATAAGCGTCGCTGCCGCAGCTTCG
 GTGCATGGTTTAGCCCCGTTACATCTTCCGCGCAGGCCGACTCGACCAGTGA
 GCTATTACGCTTTCTTTAAATGATGGCTGCTTCTAAGCCAACATCCTGGCTGT
 CTGGGCCTTCCCACATCGTTTCCCACTTAACCATGACTTTGGGACCTTAGCTG
 GCGGTCTGGGTTGTTTCCCTCTTCACGACGGACGTTAGCACCCGCCGTGTGTC
 TCCCGTGATAACATTCTCCGGTATTCGCAGTTTGCATCGGGTTGGTAAGTCGG
 GATGACCCCTTGCCGAAACAGTGCTCTACCCCGGAGATGAATTCACGAGG
 CGCTACCTAAATAGCTTTCGGGGAGAACCAGCTATCTCCCGGTTTGATTGGC
 CTTTCACCCCCAGCCACAAGTCATCCGCTAATTTTCAACATTAGTCGGTTCG
 GTCCTCCAGTTAGTGTTACCCAACCTTCAACCTGCCCATGGCTAGATCACCGG
 GTTTCGGGTCTATACCCTGCAACTTAACGCCAGTTAAGACTCGGTTTCCCTT
 CGGCTCCCCTATTTCGGTTAACCTTGCTACAGAAATATAAGTCGCTGACCCATTA
 TACAAAAGGTACGCAGTCACACGCCTAAGCGTGCTCCCACTGCTTGTACGTA
 CACGGTTTCAGGTTCTTTTCACTCCCTCGCCGGGGTTCTTTTCGCCTTTCCC
 TCACGGTACTGGTTCACTATCGGTACAGTCAGGAGTATTTAGCCTTGGAGGAT
 GGTCCCCCATATTACAGACAGGATACCACGTGTCCCGCCCTACTCATCGAGC
 TCACAGCATGTGCATTTTTGTGTACGGGGCTGTACCCCTGTATCGCGCGCCTT
 TCCAGACGCTTCCACTAACACACACACTGATTCAGGCTCTGGGCTGCTCCCC
 GTTCGCTCGCCGCTACTGGGGGAATCTCGGTTGATTTCTTTTCTCGGGGTAC
 TTAGATGTTTCAGTTCCCCCGGTTGCCTCATTAACCTATGGATTACAGTTAAT
 GATAGTGTGTCGAAACACACTGGGTTTCCCCATTTCGGAATCGCCGGTTATA
 ACGGTTTCATATCACCTTACCGACGCTTATCGCAGATTAGCACGTCCTTCATCG
 CCTCTGACTGCCAGGGCATCCACCGTGTACGCTTAGTCGCTTAACCTCACAA
 CCCGAAGATGTTTCTTTCGATTCATCATCGTGTTGCGAAAATTTGAGAGACTC
 ACGAACAACCTCTCGTTGTTCAAGTGTTCATTTTCAGCTTGATCCAGATTTTT
 AAAGAGCAAAAATCTCAAACATCACCCGAAGATGAGTTTTGAGATATTAAG
 GTCGGCGACTTTCACTCACAAACCAGCAAGTGGCGTCCCCTAGGGGATTCTGA

Fig. 22

Cont.

ACCCCTGTTACCGCCGTGAAAGGGCGGTGTCCTGGGCCTCTAGACGAAGGGG
 ACACGAAAATTGCTTATCACGCGTTGCGTGATATTTTCGTGTAGGGTGAGCTT
 TCATTAATAGAAAGCGAACGGCCTTATTCTCTTCAGCCTCACTCCCAACGCGT
 AAACGCCTTGCTTTTCACTTTCTATCAGACAATCTGTGTGAGCACTACAAAGT
 ACGCTTCTTTAAGGTAAGTGTGTGATCCAACCGCAGGTTCCCTACGGTTACC
 TTGTTACGACTTCACCCCAGTCATGAATCACAAAGTGGTAAGCGCCCTCCCG
 AAGGTTAAGCTACCTACTTCTTTTGCAACCCACTCCCATGGTGTGACGGGCG
 GTGTGTACAAGGCCCGGGAACGTATTCACCGTGGCATTCTGATCCACGATTA
 CTAGCGATTCCGACTTCATGGAGTCGAGTTGCAGACTCCAATCCGGACTACG
 ACGCACTTTATGAGGTCCGCTTGCTCTCGCGAGGTCGCTTCTCTTTGTATGCG
 CCATTGTAGCACGTGTGTAGCCCTGGTCGTAAGGGCCATGATGACTTGACGT
 CATCCCCACCTTCCTCCAGTTTATCACTGGCAGTCTCCTTTGAGTTCCCGGCC
 GGACCGCTGGCAACAAAGGATAAAGGTTGCGCTCGTTGCGGGACTTAACCC
 AACATTTCAACACGAGCTGACGACAGCCATGCAGCACCTGTCTCACGGTT
 CCCGAAGGCACATTCTCATCTCTGAAAACCTCCGTGGATGTCAAGACCAGGT
 AAGGTTCTTCGCGTTGCATCGAATTAAACCACATGCTCCACCGCTTGTGCGG
 GCCCCCGTCAATTCATTTGAGTTTAAACCTTGCGGCCGTACTCCCCAGGCGGT
 CGACTTAACGCGTTAGCTCCGGAAGCCACGCCTCAAGGGCACAACCTCCAAG
 TCGACATCGTTTACGGCGTGGACTACCAGGGTATCTAATCCTGTTTGCTCCCC
 ACGCTTTCGCACCTGAGCGTCAGTCTTCGTCCAGGGGGCCGCCTTCGCCACC
 GGTATTCCTCCAGATCTCTACGCATTTACCGCTACACCTGGAATTCTACCCC
 CCTCTACGAGACTCAAGCTTGCCAGTATCAGATGCAGTTCCCAGGTTGAGCC
 CGGGGATTTACATCTGACTTAACAAACCGCCTGCGTGCGCTTTACGCCCAG
 TAATTCCGATTAACGCTTGCACCCTCCGTATTACCGCGGCTGCTGGCACGGA
 GTTAGCCGGTGCTTCTTCTGCGGGTAACGTCAATGAGCAAAGGTATTAACCT
 TACTCCCTTCCTCCCCGCTGAAAGTACTTTACAACCCGAAGGCCTTCTTCATA
 CACGCGGCATGGCTGCATCAGGCTTGCGCCCATTTGTGCAATATTCCTCACTG
 CTGCCTCCCGTAGGAGTCTGGACCGTGTCTCAGTTCCAGTGTGGCTGGTCATC
 CTCTCAGACCAGCTAGGGATCGTCGCCTAGGTGAGCCGTTACCCACCTACT
 AGCTAATCCCATCTGGGCACATCCGATGGCAAGAGGCCCGAAGGTCCCCCTC
 TTTGGTCTTGCGACGTTATGCGGTATTAGCTACCGTTTCCAGTAGTTATCCCC
 CTCCATCAGGCAGTTTCCCAGACATTACTACCCGTCCGCCACTCGTCAGCA
 AAGAAGCAAGCTTCTTCCTGTTACCGTTGCACTTGATGTGTTAGGCCTGCCG
 CCAGCGTTCAATCTGAGCCATGATCAAACCTCTTCAATTTAAAAGTTTGACGCT
 CAAAGAATTAACTTCGTAATGAATTACGTGTTCACTCTTGAGACTTGGTATT
 CATTTTTTCGTCTTGCGACGTTAAGAATCCGTATCTTCGAGTGCCACACAGAT
 TGTCTGATAAATTGTTAAAGAGCAGTGCCGCTTCGCTTTTTCTCAGCGGCCCG
 TGTGTGAAATTGTTATCCGCTCACAATTCCACACATTATACGAGCCGGAAGC
 ATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTG
 CGTTGCGCTCACTGCCCCGCTTTCAGTCGGGAAACCTGTCGTGCCAGCTGCAT
 TAATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTGCATTTGGGCGCCAG
 GGTGGTTTTTCTTTTACCAGTGAGACGGGCAACAGCTGATTGCCCTTCACCG
 CCTGGCCCTGAGAGAGTTGCAGCAAGCGGTCCACGCTGGTTTGCCCCAGCAG
 GCGAAAATCCTGTTTGATGGTGGTTGACGGCGGGATATAACATGAGCTGTCT
 TCGGTATCGTCGTATCCCACTACCGAGATATCCGCACCAACGCGCAGCCCGG

Fig. 22

Cont.

ACTCGGTAATGGCGCGCATTGCGCCCAGCGCCATCTGATCGTTGGCAACCAG
CATCGCAGTGGGAACGATGCCCTCATTGAGCATTGTCATGGTTTGTGAAAA
CCGGACATGGCACTCCAGTCGCCTTCCCGTTCCGCTATCGGCTGAATTTGATT
GCGAGTGAGATATTTATGCCAGCCAGCCAGACGCGAGACGCGCCGAGACAGA
ACTTAATGGGCCCCTAACAGCGCGATTGCTGGTGACCCAATGCGACCAGA
TGCTCCACGCCCAGTCGCGTACCGTCTTCATGGGAGAAAATAATACTGTTGA
TGGGTGTCTGGTCAGAGACATCAAGAAATAACGCCGGAACATTAGTGCAGG
CAGCTTCCACAGCAATGGCATCCTGGTCATCCAGCGGATAGTTAATGATCAG
CCCACTGACCCGTTGCGCGAGAAGATTGTGCACCGCCGCTTTACAGGCTTCG
ACGCCGCTTCGTTCTACCATCGACACCACCACGCTGGCACCCAGTTGATCGG
CGCGAGATTTAATCGCCGCGACAATTTGCGACGGCGCGTGCAGGGCCAGACT
GGAGGTGGCAACGCCAATCAGCAACGACTGTTTGCCCGCCAGTTGTTGTGCC
ACGCGGTTGGGAATGTAATTCAGCTCCGCCATCGCCGCTTCCACTTTTTCCCG
CGTTTTTCGCAGAAACGTGGCTGGCCTGGTTCACCACGCGGGAAACGGTCTGA
TAAGAGACACCGGCATACTCTGCGACATCGTATAACGTTACTGGTTTCACAT
TCACCACCCTGAATTGACTCTCTTCCGGGCGCTATCATGCCATACCGCGAAA
GGTTTTGCACCATTCGATGGTGTGCGATCCTAGAGCGCACGAATGAGGGCCG
ACAGGAAGCAAAGCTGAAAGGAATCAAATTTGGCCGCAGGCGTACCGTGGA
CAGGAACGTCGTGCTGACGCTTCATCAGAAGGGCACTGGTGCAACGGAAATT
GCTCATCAGCTCAGTATTGCCCGCTCCACGGTTTATAAAATTCTTGAAGACG
AAAGGGCCTCGTGCATACGCCTATTTTTATAGGTTAATGTCATGATAATAAT
GGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCT
ATTTGTTTATTTTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATA
ACCCTGATAAATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAA
CATTTCCGTGTCGCCCTTATCCCTTTTTTGCGGCATTTTGCCTTCCTGTTTTT
GCTCACCAGAAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGT
GCACGAGTGGGTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGA
GTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTA
TGTGGCGCGGTATTATCCCGTGTT

Fig. 22
Cont.

GATCCTCTACGCCGGACGCATCGTGGCCGGCCACGATGCGTCCGGCGTAGAG
 GATCTATTTAACGACCCTGCCCTGAACCGACGACCGGGTCTGAATTTGCTTTC
 GAATTTCTGCCATTCATCCGCTTATTATCACTTATTCAGGCGTAGCACCAGGC
 GTTTAAGGGCACCAATAACTGCCTTAAAAAAATTACGCCCCGCCCTGCCACT
 CATCGCAGTACTGTTGTAATTCATTAAGCATTCTGCCGACATGGAAGCCATC
 ACAGACGGCATGATGAACCTGAATCGCCAGCGGCATCAGCACCTTGTCGCCT
 TGGGTATAATATTTGCCCATGGTGAAAACGGGGGCGAAGAAGTTGTCCATAT
 TGGCCACGTTTAAATCAAACTGGTGAACTCACCCAGGGATTGGCTGAGAC
 GAAAAACATATTCTCAATAAACCCCTTTAGGGAAATAGGCCAGGTTTTACCG
 TAACACGCCACATCTTGCGAATATATGTGTAGAACTGCCGGAATCGTCGT
 GGTATTCACTCCAGAGCGATGAAAACGTTTCAGTTTGCTCATGGAACCGGT
 GTAACAAGGGTGAACACTATCCCATATCACCAGCTCACCGTCTTTCATTGCC
 ATACGGAATTCGGGATGAGCATTATCAGGCGGGCAAGAATGTGAATAAAG
 GCCGGATAAACTTGTGCTTATTTTTCTTTACGGTCTTTAAAAAGGCCGTAAT
 ATCCAGCTGAACGGTCTGGTTATAGGTACATTGAGCAACTGACTGAAATGCC
 TCAAAATGTTCTTTACGATGCCATTGGGATATATCAACGGTGGTATATCCAGT
 GATTTTTTTCTCCATTTGCGGAGGGATATGAAAGCGGCCGCTTCCACACATTA
 AACTAGTTCGATGATTAATTGTCAACAGCTCGCCGGCGGCACCTCGCTAACG
 GATTCACCACTCCAAGAATTGGAGCCAATCGATTCTTGCGGAGAACTGTGAA
 TGCGCAAACCAACCCTTGGCAGAACATATCCATCGCGTCCGCCATCTCCAGC
 AGCCGCACGCGGCGCATCTCGGGCAGCGTTGGGTCTTGCCACGGGTGCGCA
 TGATCGTGCTCCTGTCGTTGAGGACCCGGCTAGGCTGGCGGGGTTGCCTTAC
 TGGTTAGCAGAATGAATCACCGATACGCGAGCGAACGTGAAGCGACTGCTG
 CTGCAAAACGTCTGCGACCTGAGCAACAACATGAATGGTCTTCGGTTTCCGT
 GTTTCGTAAAGTCTGGAAACGCGGAAGTCAGCGCCCTGCACCATTATGTTCC
 GGATCTGGGTACCGAGCTCGAATTCCTGGCCGTCGTTTTACAACGTCGTGA
 CTGGGAAAACCCCTGGCGTTACCCAACCTAATCGCCTTGCAGCACATCCCCCT
 TTCGCCAGGCATCGCAGGATGCTGCTGGCTACCCTGTGGAACACCTACATCT
 GTATTAACGAAGCGCTGGCATTGACCCTGAGTGATTTTTCTCTGGTCCCGCCG
 CATCCATACCGCCAGTTGTTTACCCTCACAACGTTCCAGTAACCGGGCATGTT
 CATCATCAGTAACCCGTATCGTGAGCATCCTCTCTCGTTTCATCGGTATCATT
 ACCCCCATGAACAGAAATTCCCCCTTACACGGAGGCATCAAGTGACCAAACA
 GGAAAAAACCGCCCTTAACATGGCCCGCTTTATCAGAAGCCAGACATTAACG
 CTTCTGGAGAACTCAACGAGCTGGACGCGGATGAACAGGCAGACATCTGT
 GAATCGCTTCACGACCACGCTGATGAGCTTTACCGCAGCTGCCTCGCGCGTT
 TCGGTGATGACGGTGAAAACCTCTGACACATGCAGCTCCCGGAGACGGTCAC
 AGCTTGTCTGTAAGCGGATGCCGGGAGCAGACAAGCCCGTCAGGGCGCGTC
 AGCGGGTGTTGGCGGGTGTCGGGGCGCAGCCATGACCCAGTCACGTAGCGA
 TAGCGGAGTGTATACTGGCTTAACATATGCGGCATCAGAGCAGATTGTACTGA
 GAGTGCACCATATGCGGTGTGAAATACCGCACAGATGCGTAAGGAGAAAAT
 ACCGCATCAGGCGCTCTTCCGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTC
 GTTCGGCTGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTAT
 CCACAGAATCAGGGGATAACGCAGGAAAGAACATGTGAGCAAAAGGCCAGC
 AAAAGGCCAGGAACCGTAAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCT
 CCGCCCCCTGACGAGCATCACAAAAATCGACGCTCAAGTCAGAGGTGGCG
 AAACCCGACAGGACTATAAAGATACCAGGCGTTCCCCCTGGAAGCTCCCTC

Fig. 23

GTGCGCTCTCCTGTTCCGACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCT
 CCCTTCGGGAAGCGTGGCGCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTT
 CGGTGTAGGTCGTTTCGCTCCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCA
 GCCCGACCGCTGCGCCTTATCCGGTAACCTATCGTCTTGAGTCCAACCCGGTA
 AGACACGACTTATCGCCACTGGCAGCAGCCACTGGTAACAGGATTAGCAGA
 GCGAGGTATGTAGGCGGTGCTACAGAGTTCTTGAAGTGGTGGCCTAACTACG
 GCTACACTAGAAGGACAGTATTTGGTATCTGCGCTCTGCTGAAGCCAGTTAC
 CTTCGGAAAAAGAGTTGGTAGCTCTTGATCCGGCAAACAAACCACCGCTGGT
 AGCGGTGGTTTTTTTTGTTTGCAAGCAGCAGATTACGCGCAGAAAAAAGGAT
 CTCAAGAAGATCCTTTGATCTTTTCTACGGGGTCTGACGCTCAGTGGAACGA
 AAACCTCACGTTAAGGGATTTTGGTCATGAGATTATCAAAAAGGATCTTCACC
 TAGATCCTTTTAAATTA AAAATGAAGTTTTAAATCAATCTAAAGTATATATG
 AGTAAACTTGGTCTGACAGTTACCAATGCTTAATCAGTGAGGCACCTATCTC
 AGCGATCTGTCTATTTTCGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGA
 TAACTACGATACGGGAGGGCTTACCATCTGGCCCCAGTGCTGCAATGATACC
 GCGAGACCCACGCTCACCGGCTCCAGATTTATCAGCAATAAACCAGCCAGCC
 GGAAGGGCCGAGCGCAGAAGTGGTCCTGCAACTTTATCCGCCTCCATCCAGT
 CTATTAATTGTTGCCGGAAGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTT
 GCGCAACGTTGTTGCCATTGCTGCAGGCATCGTGGTGTACGCTCGTCGTTTG
 GTATGGCTTCATTCAGCTCCGGTTCCCAACGATCAAGGCGAGTTACATGATC
 CCCCATGTTGTGCAAAAAAGCGGTTAGCTCCTTCGGTCCTCCGATCGTTGTCA
 GAAGTAAGTTGGCCGCAGTGTTATCACTCATGGTTATGGCAGCACTGCATAA
 TTCTCTTACTGTCATGCCATCCGTAAGATGCTTTTTCTGTGACTGGTGAGTACT
 CAACCAAGTCATTCTGAGAATAGTGTATGCGGCGACCGAGTTGCTCTTGCCC
 GGCGTCAACACGGGATAATACCGCGCCACATAGCAGAACTTTAAAAGTGCTC
 ATCATTGGAAAACGTTCTTCGGGGCGAAAACCTCTCAAGGATCTTACCGCTGT
 TGAGATCCAGTTCGATGTAACCCACTCGTGCACCCAACTGATCTTCAGCATCT
 TTTACTTTCACCAGCGTTTCTGGGTGAGCAAAAACAGGAAGGCAAAATGCCG
 CAAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTCTTCCT
 TTTTCAATATTATTGAAGCATTTATCAGGGTTATTGTCTCATGAGCGGATACA
 TATTTGAATGTATTTAGAAAAATAAACAAATAGGGGTTCGCGCACATTTCC
 CCGAAAAGTGCCACCTGACGTCTAAGAAACCATTATTATCATGACATTAACC
 TATAAAAATAGGCGTATCACGAGGCCCTTTCGTCTTCAAGAATTCTCATGTTT
 GACAGCTTATCATCGATAAGCTTTAATGCGGTAGTTTATCACAGTTAAATTGC
 TAACGCAGTCAGGCACCGTGTATGAAATCTAACAATGCGCTCATCGTCATCC
 TCGGCACCGTCACCTGGATGCTGTAGGCATAGGCTTGGTTATGCCGGTACT
 GCCGGGCCTCTTGCGGGATATCGTCCATTCCGACAGCATCGCCAGTCACTAT
 GGCGTGCTGCTAGCGCTATATGCGTTGATGCAATTTCTATGCGCACCCGTTCT
 CGGAGCACTGTCCGACCGCTTTGGCCGCCGCCAGTCCTGCTCGCTTCGCTAC
 TTGGAGCCACTATCGACTACGCGATCATGGCGACCACACCCGTCCTGTGGAT
 CCCAGACGAGTTAAGTCACCATACGTTAGTACAGGTTGCCACTCTTTTGGCA
 GACGCAGACCTACGGCTACAATAGCGAAGCGGTCCTGGTATTCATGTTTAAA
 AATACTGTGCGGATAGCCAAAACGGCACTCTTTGGCAGTTAAGCGCACTTGC
 TTGCCTGTGCGCAGTTCAACAGAATCAACATAAGCGCAAACCTCGCTGTAATT
 CTACGCCATAAGCACCAATATTCTGGATAGGTGATGAGCCGACACAACCAGG
 AATTAATGCCAGATTTTCCAGACCAGGCATACCTTCCTGCAAAGTGATTTTA

Fig. 23

Cont.

CCAGACGATGCCAGTTTTCTCCGGCTCCTACATGTAAATACCACGCATCAGG
 TTCATCATGAATTCGATACCTTTGATCCGGTTGATGATCACCGTGCCGCGAT
 AGTCTCCAGAAAAAGTACATTACTTCCTTCACCCAGAATAAGAACGGGTTG
 TCCTTCTGCGGTTGCATACTGCCAGGCATTGAGTAATTGTTGTTCTGCTTTCGG
 CACATACAATGTGCTGAGCATTATGATCAATGCCAAATGTGTTCCAGGGTTT
 TAAGGAGTGGTTCATAGCTGCTTTCCTGATGCAAAAACGAGGCTAGTTTACC
 GTATCTGTGGGGGGATGGCTTGTAGATATGACGACAGGAAGAGTTTGTAGAA
 ACGCAAAAAGGCCATCCGTCAGGATGGCCTTCTGCTTAATTTGATGCCTGGC
 AGTTTATGGCGGGCGTCTTGCCCGCCACCCTCCGGGGCCGTTGCTTCGCAACG
 TTCAAATCCGCTCCCGGCGGATTTGTCCTACTCAGGAGAGCGTTACCCGACA
 AACAACAGATAAAACGAAAGGCCCAGTCTTTCGACTGAGCCTTTCGTTTTAT
 TTGATGCCTGGCAGTTCCCTACTCTCGCATGGGGAGACCCACACTACCATC
 GCGCTACGGCGTTTCACTTCTGAGTTCGGCATGGGGTCAGGTGGGACCACC
 GCGCTACTGCCGCCAGGCAAATCTGTTTTATCAGACCGCTTCTGCGTTCTGA
 TTTAATCTGTATCAGGCTGAAAATCTTCTCTCATCCGCCAAAACAGCTTCGGC
 GTTGTAAGGTTAAGCCTCACGGTTCATTAGTACCGGTTAGCTCAACGCATCG
 CTGCGCTTACACACCCGGCCTATCAACGTCGTCGTCTTCAACGTTCCCTCAGG
 ACCCTTAAAGGGTCAGGGAGAACTCATCTCGGGGCAAGTTTCGTGCTTAGAT
 GCTTTCAGCACTTATCTCTTCCGCATTTAGCTACCGGGCAGTGCCATTGGCAT
 GACAACCCGAACACCAGTGATGCGTCCACTCCGGTCCTCTCGTACTAGGAGC
 AGCCCCCTCAGTTCTCCAGCGCCACGGCAGATAGGGACCGAACTGTCTCA
 CGACGTTCTAAACCCAGCTCGCGTACCCTTTAAATGGCGAACAGCCATACC
 CTTGGGACCTACTTCAGCCCCAGGATGTGATGAGCCGACATCGAGGTGCCAA
 ACACCGCCGTCGATATGAACTCTTGGGCGGTATCAGCCTGTTATCCCCGGAG
 TACCTTTTATCCGTTGAGCGATGGCCCTTCCATTGAGAACCACCGGATCACTA
 TGACCTGCTTTCGCACCTGCTCGCGCCGTCACGCTCGCAGTCAAGCTGGCTTA
 TGCCATTGCACTAACCTCCTGATGTCCGACCAGGATTAGCCAACCTTCGTGCT
 CCTCCGTTACTCTTTAGGAGGAGACCGCCCCAGTCAAACCTACCCACCAGACA
 CTGTCCGCAACCCGGATTACGGGTCAACGTTAGAACATCAAACATTAAAGGG
 TGGTATTTCAAGGTGCGCTCCATGCAGACTGGCGTCCACACTTCAAAGCCTC
 CCACCTATCCTACACATCAAGGCTCAATGTTCAAGTGTCAAGCTATAGTAAAG
 GTTCACGGGGTCTTTCCGTCTTGCCGCGGGTACACTGCATCTTCACAGCGAGT
 TCAATTTCACTGAGTCTCGGGTGGAGACAGCCTGGCCATCATTACGCCATTTC
 GTGCAGGTGCGGAACCTTACCCGACAAGGAATTTGCTACCTTAGGACCGTTAT
 AGTTACGGCCGCGGTTTACCGGGGCTTCGATCAAGAGCTTCGCTTGCGCTAA
 CCCCATCAATTAACCTTCCGGCACCGGGCAGGCGTCACACCGTATACGTCCA
 CTTTCGTGTTTGACAGTGCTGTGTTTTTAATAAACAGTTGCAGCCAGCTGGT
 ATCTTCGACTGATTTAGCTCCATCCGCGAGGGACCTCACCTACATATCAGC
 GTGCCCTTCTCCCGAAGTTACGGCACCATTTTGCCTAGTTTCCTTACCCGAGTT
 CTCTCAAGCGCCTTGGTATTCTCTACCTGACCACCTGTGTCGGTTTGGGGTAC
 GATTTGATGTTACCTGATGCTTAGAGGCTTTTCCTGGAAGCAGGGCATTGTT
 GCTTCAGCACCGTAGTGCCTCGTCATCACGCCTCAGCCTTGATTTTCCGGATT
 TGCCTGGAAAACCAGCCTACACGCTTAAACCGGGACAACCGTCGCCCGGCCA
 ACATAGCCTTCTCCGTCCCCCTTCGCAGTAACACCAAGTACAGGAATATTA
 ACCTGTTTCCCATCGACTACGCCTTTCGGCCTCGCCTTAGGGGTGCACTACC
 CTGCCCCGATTAAACGTTGGACAGGAACCCTTGGTCTTCCGGCGAGCGGGCTT

Fig. 23

Cont.

TTCACCCGCTTTATCGTTACTTATGTCAGCATTTCGCACTTCTGATACCTCCAG
 CATGCCTCACAGCACACCTTCGCAGGCTTACAGAACGCTCCCCTACCCAACA
 ACGCATAAGCGTCGCTGCCGCAGCTTCGGTGCATGGTTTAGCCCCGTTACAT
 CTTCCGCGCAGGCCGACTCGACCAGTGAGCTATTACGCTTTCTTTAAATGATG
 GCTGCTTCTAAGCCAACATCCTGGCTGTCTGGGCCTTCCCACATCGTTTCCCA
 CTTAACCATGACTTTGGGACCTTAGCTGGCGGTCTGGGTGTTTCCCTCTTCA
 CGACGGACGTTAGCACCCGCCGTGTGTCTCCCGTGATAACATTCTCCGGTATT
 CGCAGTTTGCATCGGGTTGGTAAGTCGGGATGACCCCTTGCCGAAACAGTG
 CTCTACCCCCGGAGATGAATTCACGAGGCGCTACCTAAATAGCTTTTCGGGGA
 GAACCAGCTATCTCCCGGTTTGATTGGCCTTTCACCCCCAGCCACAAGTCATC
 CGCTAATTTTTTCAACATTAGTCGGTTCGGTCTCCAGTTAGTGTTACCCAACC
 TTCAACCTGCCCATGGCTAGATCACCGGGTTTCGGGTCTATACCCTGCAACTT
 AACGCCCAGTTAAGACTCGGTTTCCCTTCGGCTCCCCTATTTCGGTTAACCTTG
 CTACAGAAATAAGTCGCTGACCCATTATACAAAAGGTACGCAGTCACACGC
 CTAAGCGTGCTCCCACTGCTTGTACGTACACGGTTTCAGGTTCTTTTTCACTC
 CCCTCGCCGGGGTTCTTTTCGCCTTTCCTCACGGTACTGGTTCACTATCGGT
 CAGTCAGGAGTATTTAGCCTTGGAGGATGGTCCCCCATATTCAGACAGGAT
 ACCACGTGTCCCGCCCTACTCATCGAGCTCACAGCATGTGCATTTTTGTGTAC
 GGGGCTGTCACCCTGTATCGCGCGCCTTTCAGACGCTTCCACTAACACACA
 CACTGATTCAGGCTCTGGGCTGCTCCCGTTCGCTCGCCGCTACTGGGGGAA
 TCTCGGTTGATTTCTTTTCCTCGGGGTACTTAGATGTTTCAGTTCCCCCGGTT
 GCCTCATTAACCTATGGATTTCAGTTAATGATAGTGTGTGCGAAACACACTGGG
 TTTCCCCATTTCGGAAATCGCCGGTTATAACGGTTCATATCACCTTACCGACGC
 TTATCGCAGATTAGCACGTCTTCATCGCCTCTGACTGCCAGGGCATCCACCG
 TGTACGCTTAGTCGCTTAACCTCACAACCCGAAGATGTTTCTTTCGATTCATC
 ATCGTGTTGCGAAAATTTGAGAGACTCACGAACAACCTCTCGTTGTTCAAGTGT
 TTCAATTTTCAGCTTGATCCAGATTTTTAAAGAGCAAAAATCTCAAACATCAC
 CCGAAGATGAGTTTTGAGATATTAAGGTTCGGCGACTTTCCTCACAAACCAG
 CAAGTGGCGTCCCCTAGGGGATTCGAACCCCTGTTACCGCCGTGAAAGGGCG
 GTGTCCTGGGCCTCTAGACGAAGGGGACACGAAAATTGCTTATCACGCGTTG
 CGTGATATTTTCGTGTAGGGTGAGCTTTCATTAATAGAAAGCGAACGGCCTT
 ATTCTCTTCAGCCTCACTCCCAACGCGTAAACGCCTTGCTTTTCACTTTCTATC
 AGACAATCTGTGTGAGCACTACAAAGTACGCTTCTTTAAGGTAATCCCATGA
 TCCAACCGCAGGTTCCCCTACGGTTACCTTGTTACGACTTCACCCAGTCATG
 AATCACAAAGTGGTAAGCGCCCTCCCGAAGGTTAAGCTACCTACTTCTTTTG
 CAACCCACTCCCATGGTGTGACGGGCGGTGTGTACAAGGCCCGGGAACGTAT
 TCACCGTGGCATTCTGATCCACGATTACTAGCGATTCCGACTTCATGGAGTCG
 AGTTGCAGACTCCAATCCGGACTACGACGCACCTTATGAGGTCCGCTTGCTC
 TCGCGAGGTGCTTCTCTTTGTATGCGCCATTGTAGCACGTGTGTAGCCCTGG
 TCGTAAGGGCCATGATGACTTGACGTATCCCCACCTTCTCCAGTTTATCAC
 TGGCAGTCTCCTTTGAGTTCCCGGCCGGACCGCTGGCAACAAAGGATAAGGG
 TTGCGCTCGTTGCGGGACTTAACCCAACATTTACAAACACGAGCTGACGACA
 GCCATGCAGCACCTGTCTCACGGTTCCCGAAGGCACATTCTCATCTCTGAAA
 ACTTCCGTGGATGTCAAGACCAGGTAAGGTTCTTCGCGTTGCATCGAATTAA
 ACCACATGCTCCACCGCTTGTGCGGGCCCCCGTCAATTCATTTGAGTTTAAAC
 CTTGCGGCCGTACTCCCCAGGCGGTGCACTTAACGCGTTAGCTCCGGAAGCC

Fig. 23

Cont.

ACGCCTCAAGGGGCACAACCTCCAAGTCGACATCGTTTACGGCGTGGACTACC
 AGGGTATCTAATCCTGTTTGCTCCCCACGCTTTCGCACCTGAGCGTCAGTCTT
 CGTCCAGGGGGGCCGCTTCGCCACCGGTATTCCTCCAGATCTCTACGCATTTT
 ACCGCTACACCTGGAATTCTACCCCCCTCTACGAGACTCAAGCTTGCCAGTA
 TCAGATGCAGTTCCCAGGTTGAGCCCCGGGGATTTCACATCTGACTTAACAAA
 CCGCCTGCGTGCGCTTTACGCCCAGTAATTCCGATTAACGCTTGCAACCCTCCG
 TATTACCGCGGCTGCTGGCACGGAGTTAGCCGGTGCTTCTTCTGCGGGTAAC
 GTCAATGAGCAAAGGTATTAACCTTTACTCCCTTCCTCCCCGCTGAAAGTACTT
 TACAACCCGAAGGCCTTCTTCATACACGCGGCATGGCTGCATCAGGCTTGCG
 CCCATTGTGCAATATTCCCCACTGCTGCCTCCCGTAGGAGTCTGGACCGTGTC
 TCAGTTCCAGTGTGGCTGGTCATCCTCTCAGACCAGCTAGGGATCGTCGCCT
 AGGTGAGCCGTTACCCACCTACTAGCTAATCCCATCTGGGCACATCCGATG
 GCAAGAGGCCCGAAGGTCCCCCTCTTTGGTCTTGCGACGTTATGCGGTATTA
 GCTACCGTTTCCAGTAGTTATCCCCCTCCATCAGGCAGTTTCCCAGACATTAC
 TCACCCGTCCGCCACTCGTCAGCAAAGAAGCAAGCTTCTTCTGTTACCGTTC
 GACTTGCAATGTGTTAGGCCTGCCGCCAGCGTTCAATCTGAGCCATGATCAAA
 CTCTTCAATTTAAAAGTTTGACGCTCAAAGAATTAACTTCGTAATGAATTAC
 GTGTTCACTCTTGAGACTTGGTATTCATTTTTTCGTCTTGCGACGTTAAGAATC
 CGTATCTTCGAGTGCCACACAGATTGTCTGATAAATTGTTAAAGAGCAGTG
 CCGCTTCGCTTTTTTCTCAGCGGCCGCTGTGTGAAATTGTTATCCGCTCACAAT
 TCCACACATTATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCCTAA
 TGAGTGAGCTAACTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCAGTC
 GGGAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCAACGCGCGGGGAG
 AGGCGGTTTGCGTATTGGGCGCCAGGGTGTTTCTTTTACCAGTGAGAC
 GGGCAACAGCTGATTGCCCTTACCGCCTGGCCCTGAGAGAGTTGCAGCAAG
 CGGTCCACGCTGGTTTGCCCCAGCAGGCGAAAATCCTGTTTGATGGTGGTTG
 ACGGCGGGATATAACATGAGCTGTCTTCGGTATCGTCGTATCCCCTACCGA
 GATATCCGCACCAACGCGCAGCCCGGACTCGGTAATGGCGCGCATTGCGCCC
 AGCGCCATCTGATCGTTGGCAACCAGCATCGCAGTGGGAACGATGCCCTCAT
 TCAGCATTTGCATGGTTTGTTGAAAACCGGACATGGCACTCCAGTCGCCTTCC
 CGTTCCGCTATCGGCTGAATTTGATTGCGAGTGAGATATTTATGCCAGCCAG
 CCAGACGCAGACGCGCCGAGACAGAACTTAATGGGCCCCGCTAACAGCGCGA
 TTTGCTGGTGACCCAATGCGACCAGATGCTCCACGCCCAGTCGCGTACCGTC
 TTCATGGGAGAAAATAATACTGTTGATGGGTGTCTGGTCAGAGACATCAAGA
 AATAACGCCGGAACATTAGTGCAAGGCAGCTTCCACAGCAATGGCATCCTGGT
 CATCCAGCGGATAGTTAATGATCAGCCCACTGACCCGTTGCGCGAGAAGATT
 GTGCACCGCCGCTTTACAGGCTTCGACGCGCGCTTCGTTCTACCATCGACACCA
 CCACGCTGGCACCCAGTTGATCGGCGCGAGATTTAATCGCCGCGACAATTTG
 CGACGGCGCGTGACAGGGCCAGACTGGAGGTGGCAACGCCAATCAGCAACGA
 CTGTTTGCCCGCCAGTTGTTGTGCCACGCGGTTGGGAATGTAATTCAGCTCCG
 CCATCGCCGCTTCCACTTTTTCCCGCGTTTTTCGCAGAAACGTGGCTGGCCTGG
 TTCACCACGCGGGAAACGGTCTGATAAGAGACACCGGCATACTCTGCGACAT
 CGTATAACGTTACTGGTTTCACATTCACCACCCTGAATTGACTCTCTTCCGGG
 CGCTATCATGCCATAACGCGGAAAGGTTTTGCACCATTTCGATGGTGTGCG

Fig. 23

Cont.

AAATTGAAGAGTTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAAC
 ACATGCAAGTCGAACGGTAACAGGAAGAAGCTTGCTTCTTTGCTGACGAGTG
 GCGGACGGGTGAGTAATGTCTGGGAAACTGCCTGATGGAGGGGGGATAACTA
 CTGGAAACGGTAGCTAATACCGCATAACGTCGCAAGACCAAAGAGGGGGAC
 CTTCCGGGCCTCTTGCCATCGGATGTGCCCAGATGGGATTAGCTAGTAGGTGG
 GGTAACGGCTCACCTAGGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAG
 CCACACTGGAAGTGAAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG
 GAATATTGCACAATGGGCGCAAGCCTGATGCAGCCATGCCGCGTGTATGAAG
 AAGGCCTTCGGGTTGTAAAGTACTTTCAGCGGGGAGGAAGGGAGTAAAGTT
 AATACCTTTGCTCATTGACGTTACCCGCAGAAGAAGCACCGGCTAACTCCGT
 GCCAGCAGCCGCGGTAAACGGAGGGTGCAAGCGTTAATCGGAATTACTGG
 GCGTAAAGCGCACGCAGGCGGTTTGTAAAGTCAGATGTGAAATCCCCGGGCT
 CAACCTGGGAACTGCATCTGATACTGGCAAGCTTGAGTCTCGTAGAGGGGGG
 TAGAATTCCAGGTGTAGCGGTGAAATGCGTAGAGATCTGGAGGAATACCGG
 TGGCGAAGGCGGCCCTGGACGAAGACTGACGCTCAGGTGCGAAAGCGTG
 GGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGATGTCTG
 ACTTGAGGTTGTGCCCTTGAGGCGTGGCTTCCGGAGCTAACGCGTTAAGTC
 GACCGCCTGGGGAGTACGGCCGCAAGGTTAAAACTCAAATGAATTGACGGG
 GGCCCGCACAAAGCGGTGGAGCATGTGGTTTAATTCGATGCAACGCGAAGAA
 CCTTACCTGGTC
 TTGACATCCACGGAAGTTTTTCAGAGATGAGAATGTGCCTTCGGGAACCGTGA
 GACAGGTGCTGCATGGCTGTCGTCAGCTCGTGTTGTGAAATGTTGGGTAAAG
 TCCCGCAACGAGCGCAACCCTTATCCTTTGTTGCCAGCGGTCCGGCCGGGAA
 CTCAAAGGAGACTGCCAGTGATAAACTGGAGGAAGGTGGGGATGACGTCAA
 GTCATCATGGCCCTTACGACCAGGGCTACACACGTGCTACAATGGCGCATAAC
 AAAGAGAAGCGACCTCGCGAGAGCAAGCGGACCTCATAAAGTTCGTCGTAG
 TCCGGATTGGAGTCTGCAACTCGACTCCATGAAGTCGGAATCGCTAGTAATC
 GTGGATCAGAATGCCACGGTGAATACGTTCCCGGGCCTTGTACACACCGCCC
 GTCACACCATGGGAGTGGGTTGCAAAAGAAGTAGGTAGCTTAACCTTCGGG
 AGGGCGCTTACCACTTTGTGATTCATGACTGGGGTGAAGTCGTAACAAGGTA
 ACCGTAGGGGAACCTGCGGTTGGATCATGGGATTACCTTAAAGAAGCGTACT
 TTGTAGTGCTCACACAGATTGTCTGATAGAAAGTGAAAAGCAAGGCGTTTAC
 GCGTTGGGAGTGAGGCTGAAGAGAATAAGGCCGTTTCGCTTTCTATTAATGAA
 AGCTCACCTACACGAAAATATCACGCAACGCGTGATAAGCAATTTTCGTGT
 CCCCTTCGTCTAGAGGCCAGGACACCGCCCTTTCACGGCGGTAAACAGGGGT
 TCGAATCCCCTAGGGGACGCCACTTGCTGGTTTGTGAGTGAAAGTCGCCGAC
 CTTAATATCTCAAACTCATCTTCGGGTGATGTTTGAGATTTTGTCTTTAA
 AAATCTGGATCAAGCTGAAAATTGAAACACTGAACAACGAGAGTTGTTCGTG
 AGTCTCTCAAATTTTCGCAACACGATGATGAATCGAAAGAAACATCTTCGGG
 TTGT
 GAGGTAAAGCGACTAAGCGTACACGGTGGATGCCCTGGCAGTCAGAGGCGA
 TGAAGGACGTGCTAATCTGCGATAAGCGTCGGTAAGGTGATATGAACCGTTA
 TAACCGGCGATTTCCGAATGGGGAAACCCAGTGTGTTTCGACACACTATCAT
 TAACTGAATCCATAGGTAAATGAGGCGAACCGGGGGAAGTGAACATCTAA
 GTACCCCGAGGAAAAGAAATCAACCGAGATCCCCCAGTAGCGGCGAGCGA

Fig. 24

ACGGGGAGCAGCCCAGAGCCTGAATCAGTGTGTGTGTAGTGGAAGCGTCTG
 GAAAGGCGCGCGATACAGGGTGACAGCCCCGTACACAAAAATGCACATGCT
 GTGAGCTCGATGAGTAGGGCGGGACACGTGGTATCCTGTCTGAATATGGGGG
 GACCATCCTCCAAGGCTAAATACTCCTGACTGACCGATAGTGAACCAGTACC
 GTGAGGGAAAGGCGAAAAGAACCCCGGCGAGGGGAGTGAAAAAGAACCTG
 AAACCGTGTACGTACAAGCAGTGGGAGCACGCTTAGGCGTGTGACTGCGTAC
 CTTTTGTATAATGGGTCAGCGACTTATATTCTGTAGCAAGGTTAACCGAATA
 GGGGAGCCGAAGGGAAACCGAGTCTTAAGTGGGCGTTAAGTTGCAGGGTAT
 AGACCCGAAACCCGGTGATCTAGCCATGGGCAGGTTGAAGGTTGGGTAACA
 CTAAGTGGAGGACCGAACCGACTAATGTTGAAAAATTAGCGGATGACTTGTG
 GCTGGGGGTGAAAGGCCAATCAAACCGGGAGATAGCTGGTTCTCCCCGAAA
 GCTATTTAGGTAGCGCCTCGTGAATTCATCTCCGGGGGTAGAGCACTGTTTC
 GGCAAGGGGGTTCATCCCGACTTACCAACCCGATGCAAAGTGCGAATACCGG
 AGAATGTTATCACGGGAGACACACGGCGGGTGCTAACGTCCGTCTGGAAGA
 GGGAAACAACCCA
 GACCGCCAGCTAAGGTCCCAAAGTCATGGTTAAGTGGGAAACGATGTGGGA
 AGGCCAGACAGCCAGGATGTTGGCTTAGAAGCAGCCATCATTTAAAGAAA
 GCGTAATAGCTCACTGGTTCGAGTCGGCCTGCGCGGAAGATGTAACGGGGCTA
 AACCATGCACCGAAGCTGCGGCAGCGACGCTTATGCGTTGTTGGGTAGGGGA
 GCGTTCTGTAAGCCTGCGAAGGTGTGCTGTGAGGCATGCTGGAGGTATCAGA
 AGTGCGAATGCTGACATAAGTAACGATAAAGCGGGTGAAAAGCCCGCTCGC
 CGGAAGACCAAGGGTTCCTGTCCAACGTTAATCGGGGCAGGGTGAGTCGAC
 CCCTAAGGCGAGGCCGAAAGGCGTAGTCGATGGGAAACAGGTTAATATTCC
 TGTACTTGGTGTTACTGCGAAGGGGGGACGGAGAAGGCTATGTTGGCCGGGC
 GACGGTTGTCCCGGTTTAAGCGTGTAGGCTGGTTTTCCAGGCCAAATCCGGAA
 AATCAAGGCTGAGGCGTGATGACGAGGCACTACGGTGCTGAAGCAACAAAT
 GCCCTGCTTCCAGGAAAAGCCTCTAAGCATCAGGTAACATCAAATCGTACCC
 CAAACCGACACAGGTGGTCAGGTAGAGAATACCAAGGCGCTTGAGAGAACT
 CGGGTGAAGGAACTAGGCCAAAATGGTGCCGTAACCTTCGGGAGAAGGCACGC
 TGATATGTAGGTGAGGTCCCTCGCGGATGGAGCTGAAATCAGTCGAAGATAC
 CAGCTGGCTGCAACTGTTTATTA AAAACACAGCACTGTGCAAACACGAAAGT
 GGACGTATACGGTGTGACGCCTGCCCGGTGCCGGAAGGTTAATTGATGGGGT
 TAGCGCAAGCGAAGCTCTTGATCGAAGCCCCGGTAAACGGCGGCCGTAAC
 ATAACGGTCCTAAGGTAGCGAAATTCCTTGTCGGGTAAGTTCCGACCTGCAC
 GAATGGCGTAA
 TGATGGCCAGGCTGTCTCCACCCGAGACTCAGTGAAATTGAACTCGCTGTGA
 AGATGCAGTGTACCCGCGGCAAGACGGAAAGACCCCGTGAACCTTTACTATA
 GCTTGACACTGAACATTGAGCCTTGATGTGTAGGATAGGTGGGAGGCTTTGA
 AGTGTGGACGCCAGTCTGCATGGAGCCGACCTTGAAATACCACCCTTTAATG
 TTTGATGTTCTAACGTTGACCCGTAATCCGGGTTGCGGACAGTGTCTGGTGG
 GTAGTTTGACTGGGGCGGTCTCCTCCTAAAGAGTAACGGAGGAGCACGAAG
 GTTGGCTAATCCTGGTCGGACATCAGGAGGTTAGTGCAATGGCATAAGCCAG
 CTTGACTGCGAGCGTGACGGCGCGAGCAGGTGCGAAAGCAGGTCATAGTGA
 TCCGGTGGTTCTGAATGGAAGGGCCATCGCTCAACGGATAAAAGGTACTCCG
 GGGATAACAGGCTGATACCGCCCAAGAGTTCATATCGACGGCGGTGTTTGGC

Fig. 24

Cont

ACCTCGATGTCGGCTCATCACATCCTGGGGCTGAAGTAGGTCCCAAGGGTAT
 GGCTGTTTCGCCATTTAAAGTGGTACGCGAGCTGGGTTTAGAACGTCGTGAGA
 CAGTTCGGTCCCTATCTGCCGTGGGCGCTGGAGAACTGAGGGGGGCTGCTCC
 TAGTACGAGAGGACCGGAGTGGACGCATCACTGGTGTTCGGGTTGTTCATGCC
 AATGGCACTGCCCCGGTAGCTAAATGCGGAAGAGATAAGTGCTGAAAGCATC
 TAAGCACGAAACTTGCCCCGAGATGAGTTCTCCCTGACCCTTTAAGGGTCCT
 GAAGGAACGTTGAAGACGACGACGTTGATAGGCCGGGTGTGTAAGCGCAGC
 GATGCGTTGAGCTAACCGGTACTAATGAACCGTGAGGCTTAACCTTACAACG
 CCGAAGCTGTTTTGGCGGATGAGAGAAGATTTTCAGCCTGATACAGATTAAA
 TCAGAACGCAGAAGCGGTCTGATAAAACAGAATTTGCCTGGCGGCAGTAGC
 GCGGTGGTCCCACCTGACCCCATGCCGAAGTCAGAAGTGAAACGCCGTAGCG
 CCGATGGTAGTGTGGGGTCTCCCCATGCGAGAGTAGGGA
 ACTGCCAGGCATCAAATAAAACGAAAGGCTCAGTCGAAAGACTGGGCCTTT
 CGTTTTATCTGTTGTTTGTGCGGTGAACGCTCTCCTGAGTAGGACAAATCCGCC
 GGGAGCGGATTTGAACGTTGCGAAGCAACGGCCCGGAGGGTGGCGGGCAGG
 ACGCCCGCCATAAACTGCCAGGCATCAAATTAAGCAGAAGGCCATCCTGAC
 GGATGGCCTTTTTGCGTTTCTACAACTCTTCCTGTGTCATATCTACAAGCC
 ATCCCCCACAGATACGGTAACTAGCCTCGTTTTTGCATCAGGAAAGCAGC
 TATGAACCACTCCTTAAAACCTGGAACACATTTGGCATTGATCATAATGCT
 CAGCACATTGTATGGGCCTTAAGGGCCCAACAATTACTCAATGCCTGGCAGT
 ATGCAACCGCAGAAGGACAACCCGTTCTTATTCTGGGTGAAGGAAGTAATGT
 ACTTTTTCTGGAGGACTATCGCGGCACGGTGATCATCAACCGGATCAAAGGT
 ATCGAAATTCATGATGAACCTGATGCGTGGTATTTACATGTAGGAGCCGGAG
 AAAACTGGCATCGTCTGGTAAAATACACTTTGCAGGAAGGTATGCCTGGTCT
 GGAAAATCTGGCATTAAATTCCTGGTTGTGTCGGCTCATCACCTATCCAGAAT
 ATTGGTGCTTATGGCGTAGAATTACAGCGAGTTTGCGCTTATGTTGATTCTGT
 TGAACCTGGCGACAGGCAAGCAAGTGCGCTTAACCTGCCAAAGAGTGCCGTTTT
 GGCTATCGCGACAGTATTTTTAAACATGAATACCAGGACCGCTTCGCTATTG
 TAGCCGTAGGTCTGCGTCTGCCAAAAGAGTGGCAACCTGTACTAACGTATGG
 TGACTTAACTCGTCTGGGATCCACAGGACGGGTGTGGTTCGCCATGATCGCGT
 AGTCGATAGTGGCTCCAAGTAGCGAAGCGAGCAGGACTGGGCGGCGGCCAA
 AGC
 GGTCGGACAGTGCTCCGAGAACGGGTGCGCATAGAAATTGCATCAACGCAT
 ATAGCGCTAGCAGCACGCCATAGTGACTGGCGATGCTGTCGGAATGGACGAT
 ATCCCGCAAGAGGGCCCGGCAGTACCGGCATAACCAAGCCTATGCCTACAGC
 ATCCAGGGTGACGGTGCCGAGGATGACGATGAGCGCATTGTTAGATTTTCATA
 CACGGTGCTGACTGCGTTAGCAATTTAACTGTGATAAACTACCGCATTAAA
 GCTTATCGATGATAAGCTGTCAAACATGAGAATTCTTGAAGACGAAAGGGCC
 TCGTGATACGCCTATTTTTATAGGTTAATGTCATGATAATAATGGTTTTCTTAG
 ACGTCAGGTGGCACTTTTCGGGGAAATGTGCGCGGAACCCCTATTTGTTTATT
 TTTCTAAATACATTCAAATATGTATCCGCTCATGAGACAATAACCCCTGATAA
 ATGCTTCAATAATATTGAAAAAGGAAGAGTATGAGTATTCAACATTTCCGTG
 TCGCCCTTATTCCCTTTTTTTCGGGCATTTTGCCTTCCTGTTTTTGCTACCCAG
 AAACGCTGGTGAAAGTAAAAGATGCTGAAGATCAGTTGGGTGCACGAGTGG
 GTTACATCGAACTGGATCTCAACAGCGGTAAGATCCTTGAGAGTTTTCGCCC

Fig. 24

Cont.

CGAAGAACGTTTTTCCAATGATGAGCACTTTTAAAGTTCTGCTATGTGGCGCG
 GTATTATCCCGTGTTGACGCCGGGCAAGAGCAACTCGGTGCGCCGCATACACT
 ATTCTCAGAATGACTTGGTTGAGTACTCACCAGTCACAGAAAAGCATCTTAC
 GGATGGCATGACAGTAAGAGAATTATGCAGTGCTGCCATAACCATGAGTGAT
 AACACTGCGGCCAACTTACTTCTGACAACGATCGGAGGACCGAAGGAGCTA
 ACCGCTTTTTTGCACAACATGGGGGATCATGTAACCTCGCCTTGATCGTTGGG
 AA
 CCGGAGCTGAATGAAGCCATACCAAACGACGAGCGTGACACCACGATGCCT
 GCAGCAATGGCAACAACGTTGCGCAAACCTATTAACCTGGCGAACTACTTACTC
 TAGCTTCCCGGCAACAATTAATAGACTGGATGGAGGCGGATAAAGTTGCAG
 GACCACTTCTGCGCTCGGCCCTTCCGGCTGGCTGGTTTATTGCTGATAAATCT
 GGAGCCCGGTGAGCGTGGGTCTCGCGGTATCATTGCAGCACTGGGGCCAGATG
 GTAAGCCCTCCCGTATCGTAGTTATCTACACGACGGGGAGTCAGGCAACTAT
 GGATGAACGAAATAGACAGATCGCTGAGATAGGTGCCTCACTGATTAAGCA
 TTGGTAACTGTCAGACCAAGTTTACTCATATATACTTTAGATTGATTTAAAC
 TTCATTTTTTAATTTAAAAGGATCTAGGTGAAGATCCTTTTTTGATAATCTCATG
 ACCAAAATCCCTTAACGTGAGTTTTCTGTTCCACTGAGCGTCAGACCCCGTAG
 AAAAGATCAAAGGATCTTCTTGAGATCCTTTTTTCTGCGCGTAATCTGCTGC
 TTGCAAACAAAAAAACCACCGCTACCAGCGGTGGTTTGTGTTGCCGGATCAAG
 AGCTACCAACTCTTTTTCCGAAGGTAACCTGGCTTCAGCAGAGCGCAGATACC
 AAATACTGTCCTTCTAGTGTAGCCGTAGTTAGGCCACCACTTCAAGAACTCT
 GTAGCACCGCCTACATACCTCGCTCTGCTAATCCTGTTACCAGTGGCTGCTGC
 CAGTGGCGGATAAGTCGTGTCTTACCGGGTTGGACTCAAGACGATAGTTACCG
 GATAAGGCGCAGCGGTCTGGGCTGAACGGGGGGTTCGTGCACACAGCCCAGC
 TTGGAGCGAACGACCTACACCGAACTGAGATACCTACAGCGTGAGCTATGA
 GAAAGCGCCACGCTTCCCGAAGGGAGAAAGGCGGACAGGTATCCGGTAAGC
 GGC
 AGGGTTCGGAACAGGAGAGCGCACGAGGGAGCTTCCAGGGGGAAACGCCTGG
 TATCTTTATAGTCCTGTCGGGTTTCGCCACCTCTGACTTGAGCGTCGATTTTT
 GTGATGCTCGTCAGGGGGGGCGGAGCCTATGGAAAAACGCCAGCAACGCGGC
 CTTTTTACGGTTCCTGGCCTTTTGCTGGCCTTTTGCTCACATGTTCTTTCCTGC
 GTTATCCCCTGATTCTGTGGATAACCGTATTACCGCCTTTGAGTGAGCTGATA
 CCGCTCGCCGCAGCCGAACGACCGAGCGCAGCGAGTCAGTGAGCGAGGAAG
 CGGAAGAGCGCCTGATGCGGTATTTTCTCCTTACGCATCTGTGCGGTATTTCA
 CACCGCATATGGTGCCTCTCAGTACAATCTGCTCTGATGCCGCATAGTTAA
 GCCAGTATACTCCGCTATCGCTACGTGACTGGGTCATGGCTGCGCCCCGA
 CACCCGCCAACACCCGCTGACGCGCCCTGACGGGCTTGTCTGCTCCCGGCAT
 CCGCTTACAGACAAGCTGTGACCGTCTCCGGGAGCTGCATGTGTGTCAGAGGTT
 TTCACCGTCATACCGAAACGCGCGAGGCAGCTGCGGTAAAGCTCATCAGCG
 TGGTCGTGAAGCGATTACAGATGTCTGCCTGTTTCATCCGCGTCCAGCTCGTT
 GAGTTTCTCCAGAAGCGTTAATGTCTGGCTTCTGATAAAGCGGGCCATGTTA
 AGGGCGGTTTTTTCCTGTTTGGTCACTTGATGCCTCCGTGTAAGGGGGAATTT
 CTGTTTATGGGGGTAATGATACCGATGAAACGAGAGAGGATGCTCACGATA
 CGGGTTACTGATGATGAACATGCCCGGTTACTGGAACGTTGTGAGGGTAAAC
 AACTGGCGGTATGGATGCGGCGGGACCAGAGAAAAATCACTCAGGGTCAAT

Fig. 24

Cont.

GCCAGCGCTTCGTTAATACAGATGTAGGTGTTCCACAGGGTAGCCAGCAGCA
 TCCTGCGATGCCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAGTTGGGT
 AACGCCAGGGTTTTCCAGTCACGACGTTGTAAAACGACGGCCAGTGAATTC
 GAGCTCGGTACCTGCACTGACGACAGGAAGAG
 TTTGTAGAAACGCAAAAAGGCCATCCGTCAGGATGGCCTTCTGCTTAATTTG
 ATGCCTGGCAGTTTATGGCGGGCGTCCTGCCCCGCCACCCTCCGGGCGGTTGC
 TTCGCAACGTTCAAATCCGCTCCCGGCGGATTTGTCCTACTCAGGAGAGCGT
 TCACCGACAAACAACAGATAAAACGAAAGGCCCAGTCTTTCGACTGAGCCTT
 TCGTTTTATTTGATGCCTGGCAGTTCCTACTCTCGCATGGGGAGACCCCA
 CTACCATCGGCGCTACGACTAGATTATTTGTAGAGCTCATCCATGCCATGTGT
 AATCCCAGCAGCAGTTACAAACTCAAGAAGGACCATGTGGTCACGCTTTTCG
 TTGGGATCTTTCGAAAGGGCAGATTGTGTGCGACAGGTAATGGTTGTCTGGTA
 AAAGGACAGGGCCATCGCCAATTGGAGTATTTTGTGATAATGGTCTGCTAG
 TTGAACGGATCCATCTTCAATGTTGTGGCGAATTTTGAAGTTAGCTTTGATTC
 CATTCTTTTGTGTGCTGCCGTGATGTATACATTGTGTGAGTTATAGTTGTACT
 CGAGTTTGTGTCCGAGAATGTTTCCATCTTCTTTAAAATCAATACCTTTTAAC
 TCGATACGATTAACAAGGGTATCACCTTCAAACCTTGACTTCAGCACGCGTCT
 TGAGTTCCCGTCATCTTTGAAAGATATAGTGCGTTCCTGTACATAACCTTCG
 GGCATGGCACTCTTGAAAAAGTCATGCCGTTTCATATGATCCGGATAACGGG
 AAAAGCATTGAACACCATAAGAGAAAGTAGTGACAAGTGTTGGCCATGGAA
 CAGGTAGTTTTCCAGTAGTGCAAATAAATTTAAGGGTAAGCTTTCCGTATGT
 AGCATCACCTTCACCCTCTCCACTGACAGAAAATTTGTGCCCATTAACATCAC
 CATCTAATTCAACAAGAATTGGGACAACCTCCAGTGAAAAGTTCTTCT
 CCTTTGCTCGCAGTGATTTTTTTCTCCATTTGCGGAGGGATATGAAAGCGGCC
 GCTTCCACACATTAACTAGTTTCGATGATTAATTGTCAACAGCTCGCCGGCG
 GCACCTCGCTAACGGATTCACTCAAGAATTGGAGCCAATCGATTCTTG
 CGGAGAACTGTGAATGCGGGTACCCAGATCCGGAACATAATGGTGCAGGGC
 GCTGACTTCCGCGTTTCCAGACTTTACGAAACACGGAAACCGAAGACCATTC
 ATGTTGTTGCTCAGGTCGCAGACGTTTTTGCAGCAGCAGTCGCTTCACGTTTCG
 TCGCGTATCGGTGATTCATTCTGCTAACCAGTAAGGCAACCCCGCCAGCCTA
 GCCGGGTCCCTCAACGACAGGAGCACGATCATGCGCACCCGTGGCCAGGACC
 CAACGCTGCCCCGAGATGCGCCGCGTGCGGCTGCTGGAGATGGCGGACGCGA
 TGGATATGTTCTGCCAAGGGTTGGTTTGCGCATTCACAGTTCTCCGCAAGAAT
 CGATTGGCTCCAATTCTTGGAGTGGTGAATCCGTTAGCGAGGTGCCGCCGGC
 GAGCTGTTGACAATTAATCATCGAACTAGTTTAATGTGTGGAAGCGGCCGCT
 TTCATATCCCTCCGCAAATGGAGAAAAAAATCACTGGATATACCACCGTTGA
 TATATCCCAATGGCATCGTAAAGAACATTTTGTAGGCATTTTCAGTCAGTTGCTC
 AATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGCCTTTTAAAGAC
 CGTAAAGAAAAATAAGCACAAGTTTTATCCGGCCTTTATTACATTCTTGCCC
 GCCTGATGAATGCTCATCCGGAATTCCGTATGGCAATGAAAGACGGTGAGCT
 GGTGATATGGGATAGTGTTACCCCTTGTTACACCGTTTTCCATGAGCAAACCTG
 AAACGTTTTTCATCGCTCTGGAGTGAATACCACGACGATTTCCGGCAGTTTC
 TACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGCCTATTT
 CCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCTGGGTGA
 GTTTCACCAGTTTTGATTTAAACGTGGCCAATATGGACAACCTTCTTCGCCCCC

Fig. 24

Cont.

GTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGATGCCGC
 TGGCGATTTCAGGTTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGCAGAAT
 GCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCGTAATTT
 TTTTAAGGCAGTTATTGGTGCCCTTAAACGCCTGGTGCTACGCCTGAATAAGT
 GATAATAAGCGGATGAATGGCAGAAATTCGAAAGCAAATTCGACCCGGTCG
 TCGGTTTCAGGGCAGGGTCGTTAAATAGCCGCTTATGTCTATTGCTGGTTTACG
 GTTTATTGACTACCCGAAGCAGTGTGACCCTGTGCTTCTCAAATGCCTGAGG
 GCAGTTTGCTCAGGTCTCCCGTGGGGGGGAATAATTAACGGTATGAGCCTTA
 CGGCGGACGGATCGTGGCCGCAAGTGGGTCCGGCTAGAGGATCCGACACCA
 TCGAATGGTGCAAAACCTTTCGCGGTATGGCATGATAGCGCCCGGAAGAGA
 GTCAATTCAGGGTGGTGAATGTGAAACCAGTAACGTTATACGATGTCGCAGA
 GTATGCCGGTGTCTCTTATCAGACCGTTTCCCGCGTGGTGAACCAGGCCAGC
 CACGTTTCTGCGAAAACGCGGGGAAAAAGTGGAAGCGGCGATGGCGGAGCTG
 AATTACATTCCCAACCGCGTGGCACAACAACCTGGCGGGCAAACAGTCGTTGC
 TGATTGGCGTTGCCACCTCCAGTCTGGCCCTGCACGCGCCGTCGCAAATTGTC
 GCGGCGATTAAATCTCGCGCCGATCAACTGGGTGCCAGCGTGGTGGTGTCTGA
 T
 GGTAGAACGAAGCGGCGTCGAAGCCTGTAAAGCGGCGGTGCACAATCTTCT
 CGCGCAACGGGTTCAGTGGGCTGATCATTAACTATCCGCTGGATGACCAGGAT
 GCCATTGCTGTGGAAGCTGCCTGCACTAATGTTCCGGCGTTATTTCTTGATGT
 CTCTGACCAGACACCCATCAACAGTATTATTTTCTCCCATGAAGACGGTACG
 CGACTGGGCGTGGAGCATCTGGTCGCATTGGGTCAACAGCAAATCGCGCTGT
 TAGCGGGCCCATTAAGTTCTGTCTCGGCGCGTCTGCGTCTGGCTGGCTGGCAT
 AAATATCTCACTCGCAATCAAATTCAGCCGATAGCGGAACGGGAAGGCGAC
 TGGAGTGCCATGTCCGGTTTTCAACAAACCATGCAAATGCTGAATGAGGGCA
 TCGTTCCCACTGCGATGCTGGTTGCCAACGATCAGATGGCGCTGGGCGCAAT
 GCGCGCCATTACCGAGTCCGGGCTGCGCGTTGGTGCGGATATCTCGGTAGTG
 GGATACGACGATACCGAAGACAGCTCATGTTATATCCCGCCGTCAACCACCA
 TCAAACAGGATTTTCGCCTGCTGGGGCAAACCAGCGcGGACCGCTTGCTGCA
 ACTCTCTCAGGGCCAGGCGGTGAAGGGCAATCAGCTGTTGCCCGTCTCACTG
 GTGAAAAGAAAAACCACCCTGGCGCCCAATACGCAAACCGCCTCTCCCCGC
 GCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTGGAAA
 GCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAGGCAC
 CCCAGGCTTTACACTTTATGCTTCCGGCTCGTATAATGTGTGGAATTGTGAGC
 GGATAACAATTTACACAGCGGCCGCTGAGAAAAAGCGAAGCGGCACTGCT
 CTTTAACAATTTATCAGACAATCTGTGTGGGCACTCGAAGATACGGATTCTT
 AACGTCGCAAGACGAAAAATGAATACCAAGTCTCAAGAGTGAACACGTAAT
 TCATTACGAAGTTTAATTCTTTGAGCGTCAAACCTTTTAACGACGGCCAGTGA
 ATTCGAGCTCGGTACCTGCACTGACGACAGGAAGAG

Fig. 24
Cont.

AAATTGAAGAGTTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAAC
 ACATGCAAGTCGAACGGTAACAGGAAGAAGCTTGCTTCTTTGCTGACGAGTG
 GCGGACGGGTGAGTAATGTCTGGGAAACTGCCTGATGGAGGGGGGATAACTA
 CTGGAAACGGTAGCTAATACCGCATAACGTCGCAAGACCAAAGAGGGGGAC
 CTTGGGGCCTCTTGCCATCGGATGTGCCCAGATGGGATTAGCTAGTAGGTGG
 GGTAACGGCTCACCTAGGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAG
 CCACACTGGAAGTGAAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG
 GAATATTGCACAATGGGCGCAAGCCTGATGCAGCCATGCCGCGTGTATGAAG
 AAGGCCTTCGGGTTGTAAAGTACTTTTCAGCGGGGAGGAAGGGAGTAAAGTT
 AATACCTTTGCTCATTGACGTTACCCGCAGAAGAAGCACCGGCTAACTCCGT
 GCCAGCAGCCGCGGTAAACGGAGGGTGCAAGCGTTAATCGGAATTACTGG
 GCGTAAAGCGCACGCAGGCGGTTTGTAAAGTCAGATGTGAAATCCCCGGGCT
 CAACCTGGGAAGTGCATCTGATACTGGCAAGCTTGAGTCTCGTAGAGGGGGG
 TAGAATTCCAGGTGTAGCGGTGAAATGCGTAGAGATCTGGAGGAATACCGG
 TGGCGAAGGCGGCCCTGGACGAAGACTGACGCTCAGGTGCGAAAGCGTG
 GGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGATGTGCG
 ACTTGGAGGTTGTGCCCTTGAGGCGTGGCTTCCGGAGCTAACGCGTTAAGTC
 GACCGCCTGGGGAGTACGGCCGCAAGGTTAAACTCAAATGAATTGACGGG
 GGCCCGCACAAAGCGGCGGAGCATGTGGATTAATTCGATGCAACGCGAAGAA
 CCTTACCTGGGTTTGACATGCACAGGACGCGTCTAGAGATAGGCGTTCCTT
 GTGGCCTGTGTGCAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATG
 TTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTCTCATGTTGCCAGCACGT
 AATGGTGGGGACTCGTGAGAGACTGCCGGGGTCAACTCGGAGGAAGGTGGG
 GATGACGTCAAGTCATCATGCCCTTATGTCCAGGGCTTCACACATGCTACA
 ATGGCCCGGTACAAAGGGGCTGCGATGCCGCGAGGTAAAGCGAATCCTTAAAA
 GCCGGTCTCAGTTCGGATCGGGGTCTGCAACTCGACCCCGTGAAGTCGGAGT
 CGCTAGTAATCGCAGATCAGCAACGCTGCGGTGAATACGTTCCCGGGCCTTG
 TACACACCGCCCGTCACGTCATGAAAGTCGGTAACACCCGAAGCCAGTGGCC
 TAACCCTCGGGAGGGAGCTGTCGAAGGTGGGATCGGCGATTGGGACGAAGT
 CGTAACAAGGTAACCGTAGGGGAACCTGCGGTTGGATCATGGGATTACCTTA
 AAGAAGCGTACTTTGTAGTGCTCACACAGATTGTCTGATAGAAAGTGAAAAG
 CAAGGCGTTTACGCGTTGGGAGTGAGGCTGAAGAGAATAAGGCCGTTTCGCTT
 TCTATTAATGAAAGCTCACCTACACGAAAATATCACGCAACGCGTGATAAG
 CAATTTTCGTGTCCCCTTCGTCTAGAGGCCCAGGACACCGCCCTTTCACGGCG
 GTAACAGGGGTTTGAATCCCCTAGGGGACGCCACTTGCTGGTTTGTGAGTGA
 AAGTCGCCGACCTTAATATCTCAAAACTCATCTTCGGGTGATGTTTGAGATTT
 TTGCTCTTTAAAAATCTGGATCAAGCTGAAAATTGAAACACTGAACAACGAG
 AGTTGTTTCGTGAGTCTCTCAAATTTTCGCAACACGATGATGAATCGAAAGAA
 ACATCTTCGGGTTGTGAGGTAAAGCGACTAAGCGTACACGGTGGATGCCCTG
 GCAGTCAGAGGCGATGAAGGACGTGCTAATCTGCGATAAGCGTCGGTAAGG
 TGATATGAACCGTTATAACCGGCGATTTCGAATGGGGAAACCCAGTGTGTT
 TCGACACACTATCATTAAGTAACTGAATCCATAGGTTAATGAGGCGAACCGGGGA
 ACTGAAACATCTAAGTACCCCGAGGAAAAGAAATCAACCGAGATCCCCCA
 GTAGCGGCGAGCGAACGGGGAGCAGCCAGAGCCTGAATCAGTGTGTGTGT
 TAGTGGAAGCGTCTGGAAAGGCGCGCGATACAGGGTGACAGCCCCGTACAC

Fig. 25

AAAAATGCACATGCTGTGAGCTCGATGAGTAGGGCGGGACACGTGGTATCCT
 GTCTGAATATGGGGGGACCATCCTCCAAGGCTAAATACTCCTGACTGACCGA
 TAGTGAACCAGTACCGTGAGGGAAAGGCGAAAAGAACCCCGGCGAGGGGA
 GTGAAAAAGAACCTGAAACCGTGTACGTACAAGCAGTGGGAGCACGCTTAG
 GCGTGTGACTGCGTACCTTTTGTATAATGGGTCAGCGACTTATATTCTGTAGC
 AAGGTTAACCGAATAGGGGAGCCGAAGGGAAACCGAGTCTTAACCTGGGCGT
 TAAGTTGCAGGGTATAGACCCGAAACCCGGTGTATCTAGCCATGGGCAGGTTG
 AAGGTTGGGTAACACTAACTGGAGGACCGAACCGACTAATGTTGAAAAATT
 AGCGGATGACTTGTGGCTGGGGGTGAAAGGCCAATCAAACCGGGAGATAGC
 TGGTTCTCCCCGAAAGCTATTTAGGTAGCGCCTCGTGAATTCATCTCCGGGG
 GTAGAGCACTGTTTCGGCAAGGGGGTTCATCCCGACTTACCAACCCGATGCAA
 ACTGCGAATACCGGAGAATGTTATCACGGGAGACACACGGCGGGGTGCTAAC
 GTCCGTCGTGAAGAGGGAAACAACCCAGACCGCCAGCTAAGGTCCCAAAGT
 CATGGTTAAGTGGGAAACGATGTGGGAAGGCCAGACAGCCAGGATGTTGG
 CTTAGAAGCAGCCATCATTTAAAGAAAGCGTAATAGCTCACTGGTTCGAGTCG
 GCCTGCGCGGAAGATGTAACGGGGCTAAACCATGCACCGAAGCTGCGGCAG
 CGACGCTTATGCGTTGTTGGGTAGGGGAGCGTTCTGTAAGCCTGCGAAGGTG
 TGCTGTGAGGCATGCTGGAGGTATCAGAAGTGCGAATGCTGACATAAGTAAC
 GATAAAGCGGGTGAAAAGCCCGCTCGCCGGAAGACCAAGGGTTCCTGTCCA
 ACGTTAATCGGGGCAGGGTGAGTCGACCCCTAAGGCGAGGCCGAAAGGCGT
 AGTCGATGGGAAACAGGTTAATATTCCTGTACTTGGTGTTACTGCGAAGGGG
 GGACGGAGAAGGCTATGTTGGCCGGGCGACGGTTGTCCCGGTTTAAGCGTGT
 AGGCTGGTTTTCCAGGCAAATCCGGAAAATCAAGGCTGAGGCGTGATGACG
 AGGCACTACGGTGCTGAAGCAACAAATGCCCTGCTTCCAGGAAAAGCCTCTA
 AGCATCAGGTAACATCAAATCGTACCCCAAACCGACACAGGTGGTCAGGTA
 GAGAATACCAAGGCGCTTGAGAGAACTCGGGTGAAGGAACTAGGCAAAATG
 GTGCCGTAACCTTCGGGAGAAGGCACGCTGATATGTAGGTGAGGTCCCTCGCG
 GATGGAGCTGAAATCAGTCGAAGATACCAGCTGGCTGCAACTGTTTATTAAA
 AACACAGCACTGTGCAAACACGAAAGTGGACGTATACGGTGTGACGCCTGC
 CCGGTGCCGGAAGGTTAATTGATGGGGTTAGCGCAAGCGAAGCTCTTGATCG
 AAGCCCCGGTAAACGGCGGCCGTAACCTATAACGGTCCTAAGGTAGCGAAAT
 TCCTTGTCGGGTAAGTTCCGACCTGCACGAATGGCGTAATGATGGCCAGGCT
 GTCTCCACCCGAGACTCAGTGAAATTGAACTCGCTGTGAAGATGCAGTGTAC
 CCGCGGCAAGACGGAAAGACCCCGTGAACCTTTACTATAGCTTGACACTGAA
 CATTGAGCCTTGATGTGTAGGATAGGTGGGAGGCTTTGAAGTGTGGACGCCA
 GTCTGCATGGAGCCGACCTTGAAATACCACCTTTAATGTTTGATGTTCTAAC
 GTTGACCCGTAATCCGGGTTGCGGACAGTGTCTGGTGGGTAGTTTGACTGGG
 GCGGTCTCCTCCTAAAGAGTAACGGAGGAGCACGAAGGTTGGCTAATCCTGG
 TCGGACATCAGGAGGTTAGTGCAATGGCATAAGCCAGCTTGACTGCGAGCGT
 GACGGCGCGAGCAGGTGCCGAAAGCAGGTCATAGTGATCCGGTGGTTCTGAA
 TGGAAGGGCCATCGCTCAACGGATAAAAGGTACTCCGGGGATAACAGGCTG
 ATACCGCCCAAGAGTTCATATCGACGGCGGTGTTTGGCACCTCGATGTCCGC
 TCATCACATCCTGGGGCTGAAGTAGGTCCCAAGGGTATGGCTGTTCCGCATT
 TAAAGTGGTACGCGAGCTGGGTTTAGAACGTCGTGAGACAGTTCGGTCCCTA
 TCTGCCGTGGGCGCTGGAGAACTGAGGGGGGCTGCTCCTAGTACGAGAGGA

Fig. 25

Cont.

CCGGAGTGGACGCATCACTGGTGTTCGGGTTGTCATGCCAATGGCACTGCCC
 GGTAGCTAAATGCGGAAGAGATAAGTGCTGAAAGCATCTAAGCACGAAACT
 TGCCCCGAGATGAGTTCTCCCTGACCCTTTAAGGGTCCTGAAGGAACGTTGA
 AGACGACGACGTTGATAGGCCGGGTGTGTAAGCGCAGCGATGCGTTGAGCT
 AACCGGTACTAATGAACCGTGAGGCTTAACCTTACAACGCCGAAGCTGTTTT
 GGCGGATGAGAGAAGATTTTCAGCCTGATACAGATTAAATCAGAACGCAGA
 AGCGGTCTGATAAAACAGAATTTGCCTGGCGGCAGTAGCGCGGTGGTCCCAC
 CTGACCCCATGCCGAACCTCAGAAGTGAAACGCCGTAGCGCCGATGGTAGTGT
 GGGGTCTCCCCATGCGAGAGTAGGGAACCTGCCAGGCATCAAATAAAACGAA
 AGGCTCAGTCGAAAGACTGGGCCTTTTCGTTTTATCTGTTGTTTGTCTCGGTGAAC
 GCTCTCCTGAGTAGGACAAATCCGCCGGGAGCGGATTTGAACGTTGCGAAGC
 AACGGCCCCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATC
 AAATTAAGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCTACAAAC
 TCTTCCTGTCGTCATATCTACAAGCCATCCCCCACAGATACGGTAAACTAGC
 CTCGTTTTTGCATCAGGAAAGCAGCTATGAACCACTCCTTAAAACCCCTGGAA
 CACATTTGGCATTGATCATAATGCTCAGCACATTGTATGGGCCTTAAGGGCC
 CAACAATTACTCAATGCCTGGCAGTATGCAACCGCAGAAGGACAACCCGTTT
 TTATTCTGGGTGAAGGAAGTAATGTACTTTTTCTGGAGGACTATCGCGGCAC
 GGTGATCATCAACCGGATCAAAGGTATCGAAATTCATGATGAACCTGATGCG
 TGGTATTTACATGTAGGAGCCGGAGAAAACCTGGCATCGTCTGGTAAAATACA
 CTTTGCAGGAAGGTATGCCTGGTCTGGAAAATCTGGCATTAAATTCCTGGTTGT
 GTCGGCTCATCACCTATCCAGAATATTGGTGCTTATGGCGTAGAATTACAGC
 GAGTTTTCGCTTATGTTGATTCTGTTGAACTGGCGACAGGCAAGCAAGTGCG
 CTTAACTGCCAAAGAGTGCCGTTTTGGCTATCGCGACAGTATTTTTAAACATG
 AATACCAGGACCGCTTCGCTATTGTAGCCGTAGGTCTGCGTCTGCCAAAAGA
 GTGGCAACCTGTACTAACGTATGGTGACTTAACTCGTCTGGGATCCACAGGA
 CGGGTGTGGTCGCCATGATCGCGTAGTCGATAGTGGCTCCAAGTAGCGAAGC
 GAGCAGGACTGGGCGGCGGCCAAAGCGGTCTGGACAGTGCTCCGAGAACGGG
 TGCGCATAGAAATTGCATCAACGCATATAGCGCTAGCAGCACGCCATAGTGA
 CTGGCGATGCTGTCGGAATGGACGATATCCCGCAAGAGGCCCGGCAGTACC
 GGCATAACCAAGCCTATGCCTACAGCATCCAGGGTGACGGTGCCGAGGATG
 ACGATGAGCGCATTGTTAGATTTTCATACACGGTGCCTGACTGCGTTAGCAAT
 TTAAGTGTGATAAACTACCGCATTAAAGCTTATCGATGATAAGCTGTCAAAC
 ATGAGAATTCTTGAAGACGAAAGGGCCTCGTGATACGCCTATTTTTTATAGGT
 TAATGTCATGATAATAATGGTTTCTTAGACGTCAGGTGGCACTTTTCGGGGA
 AATGTGCGCGGAACCCCTATTTGTTTATTTTTCTAAATACATTCAAATATGTA
 TCCGCTCATGAGACAATAACCTGATAAATGCTTCAATAATATTGAAAAAGG
 AAGAGTATGAGTATTCAACATTTCCGTGTGCGCCCTTATCCCTTTTTTTCGGGC
 ATTTTGCCTTCCCTGTTTTTGTCTACCCAGAAACGCTGGTGAAAGTAAAAGATG
 CTGAAGATCAGTTGGGTGCACGAGTGGGTACATCGAACTGGATCTCAACAG
 CGGTAAGATCCTTGAGAGTTTTTCGCCCCGAAGAACGTTTTCCAATGATGAGC
 ACTTTTAAAGTTCTGCTATGTGGCGCGGTATTATCCCGTGTTGACGCCGGGCA
 AGAGCAACTCGGTCGCCGCATACACTATTCTCAGAATGACTTGGTTGAGTAC
 TCACCAGTCACAGAAAAGCATCTTACGGATGGCATGACAGTAAGAGAATTAT
 GCAGTGCTGCCATAACCATGAGTGATAACACTGCGGCCAACTTACTTCTGAC

Fig. 25

Cont.

AACGATCGGAGGACCGAAGGAGCTAACCGCTTTTTTGCACAACATGGGGGA
TCATGTAACCTCGCCTTGATCGTTGGGAACCGGAGCTGAATGAAGCCATACCA
AACGACGAGCGTGACACCACGATGCCTGCAGCAATGGCAACAACGTTGCGC
AAACTATTAACCTGGCGAACTACTTACTCTAGCTTCCCGGCAACAATTAATAG
ACTGGATGGAGGCGGATAAAGTTGCAGGACCACTTCTGCGCTCGGCCCTTCC
GGCTGGCTGGTTTATTGCTGATAAATCTGGAGCCGGTGAGCGTGGGTCTCGC
GGTATCATTGCAGCACTGGGGCCAGATGGTAAGCCCTCCCGTATCGTAGTTA
TCTACACGACGGGGAGTCAGGCAACTATGGATGAACGAAATAGACAGATCG
CTGAGATAGGTGCCTCACTGATTAAGCATTGGTAACCTGTCAGACCAAGTTTA
CTCATATATACTTTAGATTGATTTAAAACCTTCATTTTTTAATTTAAAAGGATCT
AGGTGAAGATCCTTTTTGATAATCTCATGACCAAAATCCCTTAACGTGAGTTT
TCGTTCCACTGAGCGTCAGACCCCGTAGAAAAGATCAAAGGATCTTCTTGAG
ATCCTTTTTTTCTGCGCGTAATCTGCTGCTTGCAAACAAAAAAACCACCGCTA
CCAGCGGTGGTTTGTGGCCGGATCAAGAGCTACCAACTCTTTTTCCGAAGGT
AACTGGCTTCAGCAGAGCGCAGATACCAAATACTGTCCTTCTAGTGTAGCCG
TAGTTAGGCCACCACTTCAAGAACTCTGTAGCACCGCCTACATACCTCGCTCT
GCTAATCCTGTTACCAGTGGCTGCTGCCAGTGGCGATAAGTCGTGTCTTACC
GGGTGGACTCAAGACGATAGTTACCGGATAAGGCGCAGCGGTTCGGGCTGA
ACGGGGGGTTCGTGCACACAGCCAGCTTGGAGCGAACGACCTACACCGAA
CTGAGATACCTACAGCGTGAGCTATGAGAAAGCGCCACGCTTCCCGAAGGG
AGAAAGGCGGACAGGTATCCGGTAAGCGGCAGGGTCGGAACAGGAGAGCG
CACGAGGGAGCTTCCAGGGGGAAACGCCTGGTATCTTTATAGTCCTGTGCGG
TTTCGCCACCTCTGACTTGAGCGTCGATTTTTGTGATGCTCGTCAGGGGGGCG
GAGCCTATGGAAAAACGCCAGCAACGCGGCCTTTTTACGGTTCCTGGCCTTT
TGCTGGCCTTTTGCTCACATGTTCTTTCCTGCGTTATCCCCTGATTCTGTGGAT
AACCGTATTACCGCCTTTGAGTGAGCTGATACCGCTCGCCGCAGCCGAACGA
CCGAGCGCAGCGAGTCAGTGAGCGAGGAAGCGGAAGAGCGCCTGATGCGGT
ATTTTCTCCTTACGCATCTGTGCGGTATTTACACCCGCATATGGTGCCTCTC
AGTACAATCTGCTCTGATGCCGCATAGTTAAGCCAGTATACACTCCGCTATC
GCTACGTGACTGGGTTCATGGCTGCGCCCCGACACCCGCCAACACCCGCTGAC
GCGCCCTGACGGGCTTGTCTGCTCCCGGCATCCGCTTACAGACAAGCTGTGA
CCGTCTCCGGGAGCTGCATGTGTGTCAGAGGTTTTACCGTCATCACCGAAACG
CGCGAGGCAGCTGCGGTAAAGCTCATCAGCGTGGTTCGTGAAGCGATTACCA
GATGTCTGCCTGTTTCATCCGCGTCCAGCTCGTTGAGTTTCTCCAGAAGCGTTA
ATGTCTGGCTTCTGATAAAGCGGGCCATGTTAAGGGCGGTTTTTCTCTGTTTG
GTCACCTTGATGCCTCCGTGTAAGGGGGGAATTTCTGTTTCATGGGGGTAATGAT
ACCGATGAAACGAGAGAGGATGCTCACGATACGGGTACTGATGATGAACA
TGCCCGGTTACTGGAACGTTGTGAGGGTAAACAACTGGCGGTATGGATGCGG
CGGGACCAGAGAAAAATCACTCAGGGTCAATGCCAGCGCTTCGTTAATACA
GATGTAGGTGTTCCACAGGGTAGCCAGCAGCATCCTGCGATGCCTGGCGAAA
GGGGGATGTGCTGCAAGGCGATTAAAGTTGGGTAAACGCCAGGGTTTTCCAGT
CACGACGTTGTAAAACGACGGCCAGTGAATTCGAGCTCGGTACCTGCACTGA
CGACAGGAAGAGTTTGTAGAAACGCAAAAAGGCCATCCGTCAGGATGGCCT
TCTGCTTAATTTGATGCCTGGCAGTTTATGGCGGGCGTCCTGCCCGCCACCCT
CCGGGCCGTTGCTTCGCAACGTTCAAATCCGCTCCCGGCGGATTTGTCCTACT

Fig. 25

Cont.

CAGGAGAGCGTTCACCGACAAACAACAGATAAAACGAAAGGCCCAGTCTTT
 CGACTGAGCCTTTTCGTTTTATTTGATGCCTGGCAGTTCCTACTCTCGCATGG
 GGAGACCCCACTACCATCGGCGCTACGACTAGATTATTTGTAGAGCTCAT
 CCATGCCATGTGTAATCCCAGCAGCAGTTACAACTCAAGAAGGACCATGTG
 GTCACGCTTTTCGTTGGGATCTTTCGAAAGGGCAGATTGTGTGCGACAGGTAA
 TGGTTGTCTGGTAAAAGGACAGGGCCATCGCCAATTGGAGTATTTTGTGAT
 AATGGTCTGCTAGTTGAACGGATCCATCTTCAATGTTGTGGCGAATTTTGAA
 GTTAGCTTTGATTCCATTCTTTTGTGTTGTCTGCCGTGATGTATACATTGTGTGA
 GTTATAGTTGTACTCGAGTTTGTGTCCGAGAATGTTTCCATCTTCTTTAAAT
 CAATACCTTTTAACTCGATACGATTAACAAGGGTATCACCTTCAAACCTTGACT
 TCAGCACGCGTCTTGTAGTTCCCGTCATCTTTGAAAGATATAGTGCCTTCCTG
 TACATAACCTTCGGGCATGGCACTCTTGAAAAAGTCATGCCGTTTCATATGA
 TCCGGATAACGGGAAAAGCATTGAACACCATAAGAGAAAAGTAGTGACAAGT
 GTTGGCCATGGAACAGGTAGTTTTCCAGTAGTGCAAATAAATTTAAGGGTAA
 GCTTTCGTATGTAGCATCACCTTCACCCTCTCCACTGACAGAAAATTTGTGC
 CCATTAACATCACCATCTAATTCAACAAGAATTGGGACAACTCCAGTGAAAA
 GTTCTTCTCCTTTGCTCGCAGTGATTTTTTCTCCATTTGCGGAGGGATATGA
 AAGCGGCCGCTTCCACACATTAAGTAGTTCGATGATTAATTGTCAACAGCT
 CGCCGGCGGCACCTCGCTAACGGATTCAACACTCCAAGAATTGGAGCCAATC
 GATTCTTGCGGAGAACTGTGAATGCGGGTACCCAGATCCGGAACATAATGGT
 GCAGGGCGCTGACTTCCGCGTTTCCAGACTTTACGAAACACGGAAACCGAAG
 ACCATTCAATGTTGTTGCTCAGGTCGCAGACGTTTTTGAGCAGCAGTCGCTTCA
 CGTTCGCTCGCGTATCGGTGATTCTGCTAACCAGTAAGGCAACCCCGC
 CAGCCTAGCCGGGTCCTCAACGACAGGAGCACGATCATGCGCACCCGTGGCC
 AGGACCCAACGCTGCCCGAGATGCGCCGCGTGCGGCTGCTGGAGATGGCGG
 ACGCGATGGATATGTTCTGCCAAGGGTTGGTTTGCGCATTACAGTTCTCCGC
 AAGAATCGATTGGCTCCAATTCTTGAGTGGTGAATCCGTTAGCGAGGTGCC
 GCCGGCGAGCTGTTGACAATTAATCATCGAACTAGTTTAATGTGTGGAAGCG
 GCCGCTTTCATATCCCTCCGCAAATGGAGAAAAAATCACTGGATATACCAC
 CGTTGATATATCCCAATGGCATCGTAAAGAACATTTTGAGGCATTTCAGTCA
 GTTGCTCAATGTACCTATAACCAGACCGTTCAGCTGGATATTACGGCCTTTTT
 AAAGACCGTAAAGAAAAATAAGCACAGTTTTATCCGGCCTTTATTCACATT
 CTTGCCCCGCTGATGAATGCTCATCCGGAATCCGTATGGCAATGAAAGACG
 GTGAGCTGGTGATATGGGATAGTGTTACCCCTTGTTACACCGTTTTCCATGAG
 CAACTGAAACGTTTTTCATCGCTCTGGAGTGAATACCACGACGATTTCCGGC
 AGTTTCTACACATATATTCGCAAGATGTGGCGTGTTACGGTGAAAACCTGGC
 CTATTTCCCTAAAGGGTTTATTGAGAATATGTTTTTCGTCTCAGCCAATCCCT
 GGGTGAGTTTCACCAAGTTTTGATTTAAACGTGGCCAATATGGACAACCTTCTTC
 GCCCCGTTTTTCACCATGGGCAAATATTATACGCAAGGCGACAAGGTGCTGA
 TGCCGCTGGCGATTACAGTTTCATCATGCCGTCTGTGATGGCTTCCATGTCGGC
 AGAATGCTTAATGAATTACAACAGTACTGCGATGAGTGGCAGGGCGGGGCG
 TAATTTTTTTAAGGCAGTTATTGGTGCCCTTAAACGCCTGGTGCTACGCCTGA
 ATAAGTGATAATAAGCGGATGAATGGCAGAAATTCGAAAGCAAATTCGACC
 CGGTCGTCGGTTCAGGGCAGGGTCGTTAAATAGCCGCTTATGTCTATTGCTG
 GTTACGGTTTATTGACTACCCGAAGCAGTGTGACCCTGTGCTTCTCAAATGC

Fig. 25

Cont.

CTGAGGGGCAGTTTGCTCAGGTCTCCCGTGGGGGGGAATAATTAACGGTATGA
GCCTTACGGCGGACGGATCGTGGCCGCAAGTGGGTCCGGCTAGAGGATCCG
ACACCATCGAATGGTGCAAAACCTTTTCGCGGTATGGCATGATAGCGCCCGGA
AGAGAGTCAATTCAGGGTGGTGAATGTGAAACCAGTAACGTTATACGATGTC
GCAGAGTATGCCGGTGTCTCTTATCAGACCGTTTCCCGCGTGGTGAACCAGG
CCAGCCACGTTTCTGCGAAAACGCGGGGAAAAAGTGGAAGCGGCGATGGCGG
AGCTGAATTACATTCCCAACCGCGTGGCACAACAACCTGGCGGGCAAACAGTC
GTTGCTGATTGGCGTTGCCACCTCCAGTCTGGCCCTGCACGCGCCGTCGCAA
ATTGTCGCGGCGGATTAAATCTCGCGCCGATCAACTGGGTGCCAGCGTGGTGG
TGTCGATGGTAGAACGAAGCGGCGTCAAGCCTGTAAAGCGGCGGTGCACA
ATCTTCTCGCGCAACGGGTGAGTGGGCTGATCATTAACCTATCCGCTGGATGA
CCAGGATGCCATTGCTGTGGAAGCTGCCTGCACTAATGTTCCGGCGTTATTTTC
TTGATGTCTCTGACCAGACACCCATCAACAGTATTATTTTCTCCCATGAAGAC
GGTACGCGACTGGGCGTGGAGCATCTGGTTCGCATTGGGTCAACAGCAAATCG
CGCTGTTAGCGGGGCCATTAAAGTTCTGTCTCGGCGCGTCTGCGTCTGGCTGGC
TGGCATAAATATCTCACTCGCAATCAAATTCAGCCGATAGCGGAACGGGAAG
GCGACTGGAGTGCCATGTCCGGTTTTCAACAAACCATGCAAATGCTGAATGA
GGGCATCGTTCCCACTGCGATGCTGGTTGCCAACGATCAGATGGCGCTGGGC
GCAATGCGCGCCATTACCGAGTCCGGGGCTGCGCGTTGGTGCGGATATCTCGG
TAGTGGGATACGACGATACCGAAGACAGCTCATGTTATATCCCGCCGTCAAC
CACCATCAAACAGGATTTTCGCCTGCTGGGGCAAACCAGCGcGGACCGCTTG
CTGCAACTCTCTCAGGGCCAGGCGGTGAAGGGCAATCAGCTGTTGCCCGTCT
CACTGGTGAAAAGAAAAACCACCCTGGCGCCCAATACGCAAACCGCCTCTCC
CCGCGCGTTGGCCGATTCATTAATGCAGCTGGCACGACAGGTTTCCCGACTG
GAAAGCGGGCAGTGAGCGCAACGCAATTAATGTGAGTTAGCTCACTCATTAG
GCACCCCAAGGCTTTACACTTTATGCTTCCGGCTCGTATAATGTGTGGAATTGT
GAGCGGATAACAATTTACACAGCGGCCGCTGAGAAAAAGCGAAGCGGCAC
TGCTCTTTAACAATTTATCAGACAATCTGTGTGGGCACTCGAAGATACGGAT
TCTTAACGTCGCAAGACGAAAAATGAATACCAAGTCTCAAGAGTGAACACG
TAATTCATTACGAAGTTTAATTCTTTGAGCGTCAAACCTTT

Fig. 25

Cont.

AAATTGAAGAGTTTGATCATGGCTCAGATTGAACGCTGGCGGCAGGCCTAAC
 ACATGCAAGTCGAACGGTAACAGGAAGAAGCTTGCTTCTTTGCTGACGAGTG
 GCGGACGGGTGAGTAATGTCTGGGAACTGCCTGATGGAGGGGGGATAACTA
 CTGGAAACGGTAGCTAATACCGCATAACGTCGCAAGACCAAAGAGGGGGAC
 CTTGCGGCCTCTTGCCATCGGATGTGCCCAGATGGGATTAGCTAGTAGGTGG
 GGTAACGGCTCACCTAGGCGACGATCCCTAGCTGGTCTGAGAGGATGACCAG
 CCACACTGGAAGTGAAGACACGGTCCAGACTCCTACGGGAGGCAGCAGTGGG
 GAATATTGCACAATGGGCGCAAGCCTGATGCAGCCATGCCGCGTGTATGAAG
 AAGGCCTTCGGGTGTAAAGTACTTTCAGCGGGGAGGAAGGGAGTAAAGTT
 AATACCTTTGCTCATTGACGTTACCCGCAGAAGAAGCACCGGCTAACTCCGT
 GCCAGCAGCCGCGGTAAACGGAGGGTGCAAGCGTTAATCGGAATTACTGG
 GCGTAAAGCGCACGCAGGCGGTTTGTAAAGTCAGATGTGAAATCCCCGGGCT
 CAACCTGGGAACTGCATCTGATACTGGCAAGCTTGAGTCTCGTAGAGGGGGG
 TAGAATTCCAGGTGTAGCGGTGAAATGCGTAGAGATCTGGAGGAATACCGG
 TGGCGAAGGCGGCCCCCTGGACGAAGACTGACGCTCAGGTGCGAAAGCGTG
 GGGAGCAAACAGGATTAGATACCCTGGTAGTCCACGCCGTAAACGATGTGCG
 ACTTGAGGTTGTGCCCTTGAGGCGTGGCTTCCGGAGCTAACGCGTTAAGTC
 GACCGCCTGGGGAGTACGGCCGCAAGGTTAAAACTCAAATGAATTGACGGG
 GGCCCGCACAAAGCGGCGGAGCATGTGGATTAATTCGATGCAACGCGAAGAA
 CCTTACCTGGGTTTGACATGCACAGGACGCGTCTAGAGATAGGCGTTCCCTT
 GTGGCCTGTGTGCAGGTGGTGCATGGCTGTCGTCAGCTCGTGTGCTGAGATG
 TTGGGTTAAGTCCCGCAACGAGCGCAACCCTTGTCTCATGTTGCCAGCACGT
 AATGGTGGGGACTCGTGAGAGACTGCCGGGGTCAACTCGGAGGAAGGTGGG
 GATGACGTCAAGTCATCATGCCCTTATGTCCAGGGCTTCACACATGCTACA
 ATGGCCGGTACAAAGGGGCTGCGATGCCGCGAGGTTAAGCGAATCCTTAAAA
 GCCGGTCTCAGTTCGGATCGGGGTCTGCAACTCGACCCCGTGAAGTCGGAGT
 CGCTAGTAATCGCAGATCAGCAACGCTGCGGTGAATACGTTCCCGGGCCTTG
 TACACACCGCCCGTCACGTCATGAAAGTTCGGTAACACCCGAAGCCAGTGGCC
 TAACCCTCGGGAGGGAGCTGTGCAAGGTGGGATCGGCGATTGGGACGAAGT
 CGTAACAAGGTAACCGTAGGGGAACCTGCGGTTGGATCATGGGATTACCTTA
 AAGAAGCGTACTTTGTAGTGCTCACACAGATTGTCTGATAGAAAGTGAAAAG
 CAAGGCGTTTACGCGTTGGGAGTGAGGCTGAAGAGAATAAGGCCGTTTCGCTT
 TCTATTAATGAAAGCTCACCTACACGAAAATATCACGCAACGCGTGATAAG
 CAATTTTCGTGTCCCCTTCGTCTAGACGTAGCGCCGATGGTAGTGTGGGGTCT
 CCCCATGCGAGAGTAGGGAAGTCCAGGCATCAAATAAAACGAAAGGCTCA
 GTCGAAAGACTGGGCCTTTTCGTTTTATCTGTTGTTTGTGCGGTGAACGCTCTCC
 TGAGTAGGACAAATCCGCCGGGAGCGGATTTGAACGTTGCGAAGCAACGGC
 CCGGAGGGTGGCGGGCAGGACGCCCGCCATAAACTGCCAGGCATCAAATTA
 AGCAGAAGGCCATCCTGACGGATGGCCTTTTTGCGTTTCTACAAACTCTTCCT
 GTCGTCACCTGCAGGCATGCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCCT
 GTGTGAAATTGTTATCCGCTCACAATTCCACACAACATACGAGCCGGAAGCA
 TAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAACTCACATTAATTGC
 GTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATT
 AATGAATCGGCCAACGCGCGGGGAGAGGCGGTTTTCGTATTGGGCGCTCTTC
 CGCTTCCTCGCTCACTGACTCGCTGCGCTCGGTTCGTTCGGCTGCGGCGAGCG

Fig. 26

GTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATA
 ACGCAGGAAAGAACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGT
 AAAAAGGCCGCGTTGCTGGCGTTTTTCCATAGGCTCCGCCCCCTGACGAGC
 ATCACAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTAT
 AAAGATACCAGGCGTTTCCCCCTGGAAGCTCCCTCGTGCGCTCTCCTGTTCCG
 ACCCTGCCGCTTACCGGATACCTGTCCGCCTTTCTCCCTTCGGGAAGCGTGGC
 GCTTTCTCATAGCTCACGCTGTAGGTATCTCAGTTCGGTGTAGGTCGTTTCGCT
 CCAAGCTGGGCTGTGTGCACGAACCCCCCGTTCAGCCCGACCGCTGCGCCTT
 ATCCGGTAACATATCGTCTTGAGTCCAACCCGGTAAGACACGACTTATCGCCA
 CTGGCAGCAGCCACTGGTAACAGGATTAGCAGAGCGAGGTATGTAGGCGGT
 GCTACAGAGTTCTTGAAGTGGTGGCCTAACTACGGCTACACTAGAAGGACAG
 TATTTGGTATCTGCGCTCTGCTGAAGCCAGTTACCTTCGGAAAAAGAGTTGG
 TAGCTCTTGATCCGGCAAACAAACCACCGCTGGTAGCGGTGGTTTTTTTTGTTT
 GCAAGCAGCAGATTACGCGCAGAAAAAAAGGATCTCAAGAAGATCCTTTGA
 TCTTTTCTACGGGGTCTGACGCTCAGTGGAACGAAAACCTCACGTTAAGGGAT
 TTTGGTCATGAGATTATCAAAAAGGATCTTCACCTAGATCCTTTTAAATTA
 AATGAAGTTTTAAATCAATCTAAAGTATATATGAGTAACTTGGTCTGACAG
 TTACCAATGCTTAATCAGTGAGGCACCTATCTCAGCGATCTGTCTATTTTCGTT
 CATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGG
 CTTACCATCTGGCCCCAGTGCTGCAATGATACCGCGAGACCCACGCTCACCG
 GCTCCAGATTTATCAGCAATAAACCAGCCAGCCGGAAGGGCCGAGCGCAGA
 AGTGGTCCTGCAACTTTATCCGCCTCCATCCAGTCTATTAATTGTTGCCGGGA
 AGCTAGAGTAAGTAGTTCGCCAGTTAATAGTTTTCGCAACGTTGTTGCCATT
 GCTACAGGCATCGTGGTGTACGCTCGTCGTTTGGTATGGCTTCATTACGCTC
 CGGTTCCCAACGATCAAGGCGAGTTACATGATCCCCCATGTTGTGCAAAAAA
 GCGGTTAGCTCCTTCGGTCCCTCCGATCGTTGTCAGAAGTAAGTTGGCCGCAG
 TGTTATCACTCATGGTTATGGCAGCACTGCATAATTCTCTTACTGTCATGCCA
 TCCGTAAGATGCTTTTCTGTGACTGGTGAGTACTCAACCAAGTCATTCTGAGA
 ATAGTGTATGCGGCGACCGAGTTGCTCTTGCCCGGCGTCAATACGGGATAAT
 ACCGCGCCACATAGCAGAACTTTAAAAGTGCTCATCATTGGAAAACGTTCTT
 CGGGGCGAAAACTCTCAAGGATCTTACCGCTGTTGAGATCCAGTTCGATGTA
 ACCCACTCGTGCACCCAACTGATCTTCAGCATCTTTTACTTTTACCAGCGTTT
 CTGGGTGAGCAAAAAACAGGAAGGCAAAAATGCCGCAAAAAAGGGAATAAGG
 GCGACACGGAAATGTTGAATACTCATACTCTTCCTTTTTTCAATATTATTGAAG
 CATTTATCAGGGTTATTGTCTCATGAGCGGATACATATTTGAATGTATTTAGA
 AAAATAAACAAATAGGGGTTCCGCGCACATTTCCCCGAAAAGTGCCACCTGA
 CGTCTAAGAAACCATTATTATCATGACATTAACCTATAAAAAATAGGCGTATC
 ACGAGGCCCTTTTCGTCTCGCGCGTTTCGGTGATGACGGTGAAAACCTCTGAC
 ACATGCAGCTCCCGGAGACGGTCACAGCTTGCTCTGTAAGCGGATGCCGGGAG
 CAGACAAGCCCGTCAGGGCGCGTCAGCGGGTGTGGCGGGTGTGCGGGGCTG
 GCTTAACTATGCGGCATCAGAGCAGATTGTACTGAGAGTGCACCATATGCGG
 TGTGAAATACCGCACAGATGCGTAAGGAGAAAAATACCGCATCAGGCGCCAT
 TCGCCATTACAGGCTGCGCAACTGTTGGGAAGGGCGATCGGTGCGGGCCTCTT
 CGCTATTACGCCAGCTGGCGAAAGGGGGATGTGCTGCAAGGCGATTAAAGTTG
 GGTAACGCCAGGGTTTTCCAGTCACGACGTTGTAAACGACGGCCAGTGAA

Fig. 26

Cont.

TTCGAGCTCGGTACCTGCAGTGACGACAGGAAGAGTTTGTAGAAACGCAAA
 AAGGCCATCCGTCAGGATGGCCTTCTGCTTAATTTGATGCCTGGCAGTTTATG
 GCGGGCGTCCTGCCCCGCCACCTCCGGGGCGTTGCTTCGCAACGTTCAAATC
 CGCTCCCGGGCGGATTTGTCTACTCAGGAGAGCGTTCACCGACAAACAACAG
 ATAAAACGAAAGGCCAGTCTTTGACTGAGCCTTTCGTTTTATTTGATGCCT
 GGCAGTTCCTACTCTCGCATGGGGAGACCCACACTACCATCGGCGCTACG
 TCTAGATTATTTGTAGAGCTCATCCATGCCATGTGTAATCCCAGCAGCAGTTA
 CAAACTCAAGAAGGACCATGTGGTCACGCTTTTCGTTGGGATCTTTTCGAAAG
 GGCAGATTGTGTCGACAGGTAATGGTTGTCTGGTAAAAGGACAGGGCCATCG
 CCAATTGGAGTATTTTGTGATAATGGTCTGCTAGTTGAACGGATCCATCTTC
 AATGTTGTGGCGAATTTTGAAGTTAGCTTTGATTCCATTCTTTTGTCTGTCTGC
 CGTGATGTATACATTGTGTGAGTTATAGTTGTAAGTTCGAGTTTGTGTCCGAGAA
 TGTTTCCATCTTCTTTAAAATCAATACCTTTTAACTCGATACGATTAACAAGG
 GTATCACCTTCAAACCTTGACTTCAGCACGCGTCTTGTAGTTCCCGTCATCTTT
 GAAAGATATAGTGCCTTCTGTACATAACCTTCGGGCATGGCACTCTTGAAA
 AAGTCATGCCGTTTCATATGATCCGGATAACGGGAAAAGCATTGAACACCAT
 AAGAGAAAGTAGTGACAAGTGTGGCCATGGAACAGGTAGTTTTCAGTAGT
 GCAAATAAATTTAAGGGTAAGCTTTCGGTATGTAGCATCACCTTCACCCTCTC
 CACTGACAGAAAATTTGTGCCCATTAACATCACCATCTAATTCAACAAGAAT
 TGGGACAACCTCCAGTGAAAAGTTCTTCTCCTTTGCTAGCAGTGATTTTTTCT
 CCATTTGCGGAGGGATATGAAAGCGGCGCGCTTCCACACATTAACTAGTTCTG
 ATGATTAATTGTCAACAGCTCGCCGGCGGCACCTCGCTAACGGATTCACCAC
 TCCAAGAATTGGAGCCAATCGATTCTTGCGGAGAACTGTGAATGCGGGTACC
 CAGATCCGGAACATAATGGTGCAGGGCGCTGACTTCCGCGTTTCCAGACTTT
 ACGAAACACGGAAACCGAAGACCATTTCATGTTGTTGCTCAGGTGCGAGACGT
 TTTGAGCAGCAGTCGCTTCACGTTTCGCTCGCGTATCGGTGATTTCATTCTGCT
 AACCAGTAAGGCAACCCCGCCAGCCTAGCCGGGTCTCAACGACAGGAGCA
 CGATCATGCGCACCCGTGGCCAGGACCCAACGCTGCCCCGAGATGCGCCGCGT
 GCGGCTGCTGGAGATGGCGGACGCGATGGATATGTTCTGCCAAGGGTTGGTT
 TGCGCATTCACAGTTCTCCGCAAGAATCGATTGGCTCCAATTCTTGAGTGGT
 GAATCCGTTAGCGAGGTGCCGCCGGCGAGCTGTTGACAATTAATCATCGAAC
 TAGTTTAATGTGTGGAAGCGGCGCTTTTCATATCCCTCCGCAAATGGAGAAA
 AAAATCACTGGATATACCACCGTTGATATATCCCAATGGCATCGTAAAGAAC
 ATTTTGAGGCATTTTCAGTCAGTTGCTCAATGTACCTATAACCAGACCGTTTCAG
 CTGGATATTACGGCCTTTTTTAAAGACCGTAAAGAAAAATAAGCACAAGTTTT
 ATCCGGCCTTTATTCACATTCTTGCCCGCCTGATGAATGCTCATCCGGAATTC
 CGTATGGCAATGAAAGACGGTGAGCTGGTGATATGGGATAGTGTTCCACCTT
 GTTACACCGTTTTTCCATGAGCAAACCTGAAACGTTTTTCATCGCTCTGGAGTGA
 ATACCACGACGATTTCCGGCAGTTTCTACACATATATTCGCAAGATGTGGCG
 TGTTACGGTGAAAACCTGGCCTATTTCCCTAAAGGGTTTATTGAGAATATGTT
 TTTCGTCTCAGCCAATCCCTGGGTGAGTTTCACCAGTTTTGATTTAAACGTGG
 CCAATATGGACAACCTTCTTCGCCCCCGTTTTTCACCATGGGCAAATATTATACG
 CAAGGCGACAAGGTGCTGATGCCGCTGGCGATTTCAGGTTCATCATGCCGTCT
 GTGATGGCTTCCATGTCGGCAGAATGCTTAATGAATTACAACAGTACTGCGA
 TGAGTGGCAGGGCGGGGCGTAATTTTTTTAAGGCAGTTATTGGTGCCCTTAA

Fig. 26

Cont.

ACGCCTGGTGCTACGCCTGAATAAGTGATAATAAGCGGATGAATGGCAGAA
 ATTCGAAAGCAAATTCGACCCGGTCGTCGGTTCAGGGCAGGGTCGTTAAATA
 GCCGCTTATGTCTATTGCTGGTTTACGGTTTATTGACTACCCGAAGCAGTGTG
 ACCCTGTGCTTCTCAAATGCCTGAGGGCAGTTTGCTCAGGTCTCCCGTGGGG
 GGGAATAATTAACGGTATGAGCCTTACGGCGGACGGATCGTGGCCGCAAGT
 GGGTCCGGCTAGAGGATCCGACACCATCGAATGGTGCAAAACCTTTCGCGGT
 ATGGCATGATAGCGCCCGGAAGAGAGTCAATTCAGGGTGGTGAATGTGAAA
 CCAGTAACGTTATACGATGTCGCAGAGTATGCCGGTGTCTCTTATCAGACCG
 TTCCCGCGTGGTGAACCAGGCCAGCCACGTTTCTGCGAAAACGCGGGAAAA
 AGTGGAAGCGGCGATGGCGGAGCTGAATTACATTCCCAACCGCGTGGCACA
 ACAACTGGCGGGCAAACAGTCGTTGCTGATTGGCGTTGCCACCTCCAGTCTG
 GCCCTGCACGCGCCGTCGCAAATTGTGCGGCGGATTAAATCTCGCGCCGATC
 AACTGGGTGCCAGCGTGGTGGTGTGATGGTAGAACGAAGCGGCGTCAAG
 CCTGTAAAGCGGCGGTGCACAATCTTCTCGCGCAACGGGTCAAGTGGGCTGAT
 TATTAACATATCCGCTGGATGACCAGGATGCCATTGCTGTGGAAGCTGCCTGC
 ACTAATGTTCCGGCGTTATTTCTTGATGTCTCTGACCAGACACCCATCAACAG
 TATTATTTTCTCCCATGAAGACGGTACGCGACTGGGCGTGGAGCATCTGGTC
 GCATTGGGcCACCAGCAAATCGCGCTGTTAGCGGGCCCATTAAGTTCTGTCTC
 GGCGCGTCTGCGTCTGGCTGGCTGGCATAAATATCTCACTCGCAATCAAATT
 CAGCCGATAGCGGAACGGGAAGGCGACTGGAGTGCCATGTCCGGTTTTCAA
 CAAACCATGCAAATGCTGAATGAGGGCATCGTTCCCACTGCGATGCTGGTTG
 CCAACGATCAGATGGCGCTGGGCGCAATGCGCGCCATTACCGAGTCCGGGCT
 GCGCGTTGGTGCGGATATCTCGGTAGTGGGATACGACGATACCGAAGACAG
 CTCATGTTATATCCCGCCGTCAACCACCATCAAACAGGATTTTCGCCTGCTGG
 GGCAAACCAGCGTGGACCGCTTGCTGCAACTCTCTCAGGGGCCAGGCGGTGAA
 GGGCAATCAGCTGTTGCCCGTCTCACTGGTGAAAAGAAAAACCACCCTGGCG
 CCAATACGCAAACCGCCTCTCCCCGCGCGTTGGCCGATTCAATTAATGCAGC
 TGGCACGACAGGTTTTCCCGACTGGAAAGCGGGCAGTGAGCGCAACGCAATT
 AATGTGAGTTAGCTCACTCATTAGGCACCCAGGCTTTACACTTTATGCTTCC
 GGCTCGTATAATGTGTGGAATTGTGAGCGGATAACAATTTACACACAGCGGCC
 GCTGAGAAAAAGCGAAGCGGCACTGCTCTTTAACAATTTATCAGACAATCTG
 TGTGGGCACTCGAAGATACGGATTCTTAACGTCGCAAGACGAAAAATGAAT
 ACCAAGTCTCAAGAGTGAACACGTAATTCATTACGAAGTTTAATTCTTTGAG
 CGTCAAACCTTT

Fig. 26
Cont.